



## Contract for evaluation and registration of off-farm inputs

Between

No.

- Hereafter referred to as Mandator -

And

Institut für Marktökologie, IMO  
Weststr. 51  
CH-8570 Weinfelden

- Hereafter referred to as IMO-

### 1. Subject of the contract

- 1.1 On the basis of this contract and according to the Standard Procedures IMO executes the approval and registration of off-farm inputs (e.g. pesticides, fertilisers, soil conditioners), based on the documents provided by the Mandator, for their use in organic farming according to the following conditions and guidelines:

(Please tick)

<input type="checkbox"/>	Council Regulation (EC) No 834/07 of 28 June 2007 on organic production and labelling of organic products and repealing Regulation (EEC) No 2092/91
<input type="checkbox"/>	US American NOP Standards (USDA, AMS 7 CFR Part 205, National Organic Program, Final Rule) and related Guidelines for organic production.
<input type="checkbox"/>	Japanese JAS Law (Law Concerning Standardisation and Proper Labelling of Agricultural and Forestry Products, Law No. 175) with related Notification for organic farming.
<input type="checkbox"/>	Other:

### 2. Rights and duties of IMO

- 2.1 IMO undertakes to verify the off-farm inputs that have been declared by the Mandator for their compliance/equivalence with the required terms and conditions of the Standards and/or Regulations specified in Article 1 of this contract in accordance with its Standard Procedures.
- 2.2 In case of positive appraisal by results of the verification IMO commits to enter the off-farm inputs into the list of off-farm inputs for use in organically produced crops according to EU Reg. (EC) 834/2007, NOP and JAS which is developed and updated by IMO.
- 2.3 IMO commits itself to the deployment of well-trained and qualified persons who will adhere to confidentiality, strict neutrality and objectivity when carrying out the verifications.
- 2.4 IMO commits to notify the Mandator in advance about the necessity and to agree upon with the Mandator the performance of paid analysis and tests.

### **3. Rights and duties of the Mandator**

- 3.1 The Mandator agrees to provide IMO with complete information that would be necessary for the comprehensive description of all off-farm inputs as well as thoroughly fill in all documents and forms required for IMO's verification.
- 3.2 The Mandator authorises IMO to subcontract services, e.g. for testing residue of GMO or other testing. Expenses for testing and transportation of the samples for testing will also be borne by the Mandator.
- 3.3 The Mandator also commits to inform IMO immediately on the following:
- Any major changes made in the business units and activities from what was described earlier
  - if the business unit or a part of it is transferred to a different entity or the business is continued by another entity/organisation (the rights and duties of this contract will get transferred automatically to the new entity unless stipulated in writing by either side)
  - any changes in the specification or production methods of the products [recipe, production process, packing or quality management system (like change in the business unit head etc.)]
  - serious complaint reported by a third party with regard to the products approved by IMO
  - all measures taken in case the Mandator has to suspect that any products produced, processed or imported/exported by him/her are not in compliance/equivalence with the relevant regulations or standards.

### **4. Financial**

- 4.1 A comprehensive approval of the corresponding off-farm inputs takes place every year. All the costs for the approval will be borne by the Mandator in accordance with the valid offer (or the actual IMO tariffs or rates).
- 4.2 The Mandator commits to settle all the payments, irrespective of the outcome of the approval, within 14 days of receipt of the invoice from IMO. For activities abroad an advance payment can be claimed.
- 4.3 Additional expenses which may arise out of unsatisfactory cooperation with IMO or due to enquiries from statutory authorities will also be charged to the Mandator.
- 4.4 The liability of IMO for its approval activity is limited to, at the very maximum, the amount paid by the Mandator for the calendar year in which the dispute occurred.

### **5. Confidentiality**

- 5.1 The Mandator and IMO commit themselves to keep all the commercial and business information, circumstances, data and events of the other parties of the contract absolutely confidential against third parties and also commit on behalf of their employees in this respect. The same applies to all the other data which are connected with this contract.
- 5.2 The following are exempted from this:
- Informing the competent statutory authorities.
  - The passing on of relevant data to a third party on special request of the Mandator (release of data).

A handwritten signature in blue ink, appearing to be "R. K. Singh", written over a horizontal line.

## **6. Duration and termination of the contract**

- 6.1 This contract comes into effect from the date of signing by the parties and shall be valid until complete performance the contract's obligations by the parties. The contract shall be terminated in case of liquidation or reorganisation of the legal entity of either party.
- 6.2 Whenever the implementation of this contract is hindered considerably by force majeure circumstances, unforeseen events (e.g. natural catastrophes, wars, acts of terrorism, mass disturbances, etc.), the duration of the contract is automatically extended until the completion by the parties of their duties under the contract.
- 6.3 All changes and amendments to this contract shall be prior mutually agreed by the parties, made in writing and signed by the parties. Such changes and amendments shall constitute an integral part of the contract.
- 6.4 If any provision of this contract is or becomes invalid for any reason, this shall not affect the validity or enforceability of any or all of the remaining provisions hereof. In such a case the parties shall forthwith enter into good-faith negotiations to amend such provision in such a way that, as amended, it is valid and legal and to the maximum extent possible carries out the original intent of the parties as reflected herein with respect to the matter in question.

## **7. Arbitration**

Disputes that occur out of this contract and which cannot be reconciled are to be taken to arbitration according to for arbitration procedure (IMO I 4.5.5 G). For all such cases the jurisdiction will be at the location of the Institute for Marketecology (IMO).

Mandator

Place, Date

*Pesajó*  
*Cortez, Ver Mexico*  
*3-05-2011*

Institute for Marketecology (IMO)

Weinfelden, \_\_\_\_\_

Aspect (Harmonized formulation type, color and odor)  
of NES FUNGICIDA, ACARICIDA e INSECTICIDA  
SELECTIVO - Líquido

**Guidelines:**

**Provided by the sponsor / OPPTS 830.6302 / OPPTS 830.6304**

Test number:

FOBR 6-30376

ID 50907

Date:

June 16<sup>th</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

5MIC0100102437a



Study No. FOBR 6-30376

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Chemistry Department



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## GLP Quality Assurance Unit Statement

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Aspect (Harmonized formulation type, color and odor) of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30376

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Aspect (Harmonized formulation type, color and odor) of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30376

**Test Product:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

Study No. FOBR 6-30376

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MICROQUIM S.A.  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 23<sup>rd</sup> 2010

Experimental stage finalization date: February 23<sup>rd</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

### B.5) TEST GUIDE

This study will be performed according with the following method: Provided by the Sponsor / OPPTS 830.6302 / OPPTS 830.6304 Test guides, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Color Determination" ((POE133-QG/26) / "Odor Determination" (POE 134-QG/27).

### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

### C) PURPOSE

The aim of this test will be to determine the Aspect (Harmonized formulation type, color and odor) of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

The Aspect (Harmonized formulation type, color and odor) has been carried out according to the specified methods. The results are included in the summary of results of this report.



#### D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 025/2009

Test	Method	Results
Aspect Harmonized formulation type Color Odor	Provided by the Sponsor OPPTS 830.6302 OPPTS 830.6304	<b>SC</b> <b>Black 3C (Black)</b> <b>Characteristic</b>

## **E) TEST METHODS AND RESULTS**

### **E.1 Aspect (Harmonized formulation type, color and odor)**

#### ***Harmonized formulation type***

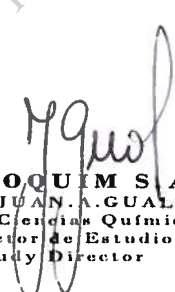
- **Purpose:** The aim of this test will be to determine the harmonized formulation type of the sample.
- **Apparatus:** It doesn't correspond
- **Methodology:** It doesn't correspond
- **Procedure:** The harmonized formulation type is provided by the Sponsor.
- **Results:** **SC**


#### ***Color***

- **Purpose:** The aim of the test is to determinate the color of the sample.
- **Apparatus:** It doesn't correspond.
- **Methodology:** OPPTS 830.6302
- **Procedure:** The Pantone scale it's a color scale where each color has a code. Using this scale the observer visually compares the test sample to the scale and describes which color the Pantone code corresponds to.
- **Results:** **Black 3C (Black)**

### Odor

- Purpose: The aim of this test is to determinate the odor of the sample.
- Apparatus: It doesn't correspond.
- Methodology: OPPTS 830.6304
- Procedure: The odor of the sample was compared to other substances of characteristic odors.
- Results: **Characteristic odor.**

  
**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

  
**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

**ANNEX I:**

**GLP Certificate issued by OAA**

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**OAA**

Organismo  
Argentino de  
Acreditación

Av. Julio A. Roca 551, 5º Piso, B1000  
C1007A0B1 B1000, Argentina  
Teléfono: 54-11-4549-3962 y 3714  
info@oaa.org.ar / www.oaa.org.ar

Av. Julio A. Roca 551, 5º Piso, B1000  
C1007A0B1 B1000, Argentina  
Teléfono: 54-11-4549-3962 y 3714  
info@oaa.org.ar / www.oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL

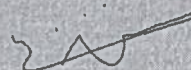
Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Trilunvirato 3447 - CABA

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit



President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-(PRO-BPL) v2, F.e.V = 01-diciembre-2009



## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Aspect (Harmonized formulation type, color and odor)

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30376

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14088 a	Study Plan Auditing	02.11.2010
14088 b	Study Auditing	02.23.2010
14088 c	Final Report Auditing	08.11.2010
14088 d	Auditor's Report to Direction and Study Director	08.12.2010

**Dr. Ana Inés Chanfreau**  
Veterinarian

**GLP Quality Assurance Unit**

Assay of active ingredient of NES FUNGICIDA,  
ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Method: Volumetric**

Test number:

FOBR 6-30377

ID 50907

Date:

March 22<sup>nd</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**

**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

7MIC8100102435a



Study No.: FOBR 6-30377

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Chemistry Department

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## **ANNEX**

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## **GLP Quality Assurance Unit Statement**

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Assay of active ingredient of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30377

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Guadalupe**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Assay of active ingredient of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30377

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

**Study No.:** FOBR 6-30377

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**MICROQUIM S.A.**  
Chemistry Department



### B.3) SCHEDULE

Experimental stage initiation date: February 25<sup>th</sup> 2010

Experimental stage finalization date: February 26<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDRONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: Volumetric Test guide, adopted on the 10<sup>th</sup> of March of 2008.

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

#### C) PURPOSE

The aim of this test will be to determine the Assay of active ingredient of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Assay of active ingredient has been carried out according to the specified methods. The results are included in the summary of results of this report.

#### **D) SUMMARY OF RESULTS**

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 025/2009

Test	Method	Results
Assay of active ingredient <b>Sulfur:</b>	Volumetric	<b>13.68 % w/w</b> <b>14.91 %w/v</b>

## E) TEST METHODS AND RESULTS

### E.1 Assay of active ingredient

- Purpose: The aim of this test is to do an Assay of active ingredient of the sample.
- Methodology: CIPAC 18, volume E, page 202
- Apparatus:
  - ✓ Analytical Balance (DQ-010):
    - Manufacturer: OHAUS CORPORATION
    - Model: OHAUS Explorer
    - Maximum weight: 210 g
    - Precision: 0.1 mg
    - Calibration Company: Sartorius
    - Calibration Date: July 15<sup>th</sup> 2009
    - Expiration Date: July 2010
- Reagents and solvents:
  - Sodium sulfite
  - Ethanol
  - Formaldehyde 35%
  - Starch
  - Acetic acid solution 20%
  - Titrate: 0.1006 N Standard iodine solution
- Procedure:
  - Determination

Weigh in a 250 ml Erlenmeyer, with accuracy of 0.1 mg, a sufficient quantity of sample that contains around 0.250 g of sulfur. Damp the sample completely with 25 ml of ethanol. Add 40 ml of water and 5 g of iodine sulfite. Connect a refrigerant and heat slowly the mixture to dissolve the sulfur, keep heating at refluxing during 1 hour stirring occasionally. After this time, all the sulfur particles should be dissolved. If not, keep heating the mixture.

If there is Sulfur, stir often the Erlenmeyer in order to drag the sulfur particles without dissolving. Cool the solution, remove the condenser and transfer quantitatively to a 250 ml flask. Bring to volume with water, stir and filtrate, if necessary. Transfer with volumetric pipette, 100 ml of the solution to an Erlenmeyer; add 12.5 ml of formaldehyde and leave stand the mixture for about 5 minutes. Add 10 ml of acetic acid and titrate immediately with a 0.1 N iodine solution, using starch as indicator.

• Calculations:

Calculate the content of Sulfur in the analyzed sample by the following means:

$$\text{Sulfur Content (\% w/w)} = \frac{8.02 \times V_M \times N}{M_M}$$

Where:

$V_M$  : volume, in milliliters, of the iodine solution used for the sample's assay;

$N$  : concentration, in normality, of the iodine solution;

$M_M$  : mass, in grams, of the portion of the sample;

$V_C$  : volume, in milliliters, of the iodine solution used for the thiosulfate determination.

• Data and Results:

Sample	Sample mass (g)	Solution volume (ml)	Aliquot volume (ml)	Titrate volume (ml)	Sulfur % w/w	Average Sulfur w/w	Sulfur % w/v	Average Sulfur % w/v
Determination (1)	1.6480	250	100	28.0	13.71	13.68	14.94	14.91
Determination (2)	1.6428	250	100	27.8	13.65		14.88	

**MICROQUIM S.A.**  
LIC. JUAN. A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No.: FOBR 6-30377

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**MICROQUIM S.A.**  
Chemistry Department



**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

**ANNEX II:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Resolución  
17.12.2008  
Excmo. Sr. Ministro  
Dr. J. C. LAFRANCIA

Av. Julio A. Roca 651 B, Seo. 6 y 11  
(C1067A5D) Bx. Av. Argentina  
Teléfono: 54-11 4559-3952 / 3954  
info@oaa.org.ar www.oaa.org.ar

OAA- Organismo Argentino de Acreditación  
F13-(PRO-BPL) v2, F.e.V= 01-diciembre-2009

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

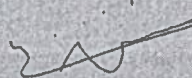
Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit



President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

Study No.: FOBR 6-30377

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MICROQUIM S.A.  
Chemistry Department

**GLP QUALITY ASSURANCE UNIT STATEMENT**

**TITLE:** Assay of active ingredient

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

**STUDY NUMBER:** FOBR 6-30377

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14089 a	Study Plan Auditing	02.11.2010
14089 b	Study Auditing	02.25.2010
14089 c	Final Report Auditing	08.11.2010
14089 d	Auditor's Report to Direction and Study Director	08.12.2010

**Dr. Ana Inés Chanfreau**  
Veterinarian

**GLP Quality Assurance Unit**

Low temperature stability of NES FUNGICIDA,  
ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

**Guideline: CIPAC MT 39**

Test number:

FOBR 6-30379

ID 50907

Date:

June 16<sup>th</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

9MIC6100102433a



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## **ANNEX**

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GLP Quality Assurance Unit Statement



**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Low temperature stability of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30379

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

Study No. FOBR 6-30379

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**MICROQUIM S.A.**  
**Chemistry Department**

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Low temperature stability of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30379

**Test Product:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Lautaro Castro García  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

Study No. FOBR 6-30379

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MICROQUIM S.A.  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: May 31<sup>st</sup> 2010

Experimental stage finalization date: June 08<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17.OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 39 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Determination of the stability in low temperature storage" (POE43-QG/10).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

#### C) PURPOSE

The aim of this test will be to determine the Low temperature stability of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Low temperature stability has been carried out according to the specified methods. The results are included in the summary of results of this report.

## D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 250/2009

	Test	Method	Results
Low temperature stability CIPAC MT 39	Suspensibility	CIPAC MT 168	101.7 % w/w



## **E) TEST METHODS AND RESULTS**

### **E.1 Low temperature stability**

- **Purpose:** The aim of this test is to evaluate the low temperature stability of the sample.
- **Apparatus :**
  - ✓ Refrigerator:
    - Supplier: FRIOSUR
    - Model: FRIOLAB
    - Temperature:  $(0 \pm 2) ^\circ\text{C}$
- **Methodology:** CIPAC MT 39
- **Procedure:**

A hundred milliliters of sample were maintained to  $0 ^\circ\text{C}$  in a centrifuge tube for 1 hour and it was determined the amount of solid or oily material that possibly separates during the incubation.

The storage was prolonged for a period of 7 days and the recipient container was centrifuged to the ends of separating the originated phases. The volume of any separated material at the bottom of the tube was recorded.

## E.2 Suspending

- Purpose: The aim of this test will be to determine the Suspending of the sample.

- Apparatus:

- ✓ Measuring cylinder 250 ml
- ✓ Analytical balance (DQ-010):
  - Manufacturer: OHAUS CORPORATION
  - Model: OHAUS Explorer
  - Maximum weight : 210 g
  - Precision: 0.1 mg
  - Calibration company: Sartorius
  - Calibration Date: July 15<sup>th</sup> 2009
  - Expiration date: July 2010
- ✓ Heater (DQ-049):
  - Manufacturer: MHC, Industria Argentina
  - Precision:  $\pm 1$  °C
  - Calibration company: LENOR
  - Calibration date: July 30<sup>th</sup> 2009
  - Expiration date: July 2010

- Methodology: CIPAC MT 168

- Procedure:

Approximately 1.0 g of the sample was weighed with accuracy in a 100 ml beaker. Portions of Standard Water MT 18 were added, decanting quantitatively to a measuring cylinder of 250 ml, and adding to 250 ml with this water. The measuring cylinder was inverted 30 times in 1 minute rotating it 180°.

The measuring cylinder rested in a waterbath at 30 °C during 30 minutes. After the specified time 225 ml of the measuring cylinder content was remove by suction in approximately 15 seconds, taking care of not shaking the silt. The solids content in the sediment were determine gravimetrically in the remaining 25 ml of suspension at the bottom of the test vessel, transferring the 25ml into a tarred Petri dish by rising with distilled water, and drying to constant weight.

• Calculations:

$$\text{Suspensibility} = 111 \left( 1 - \frac{a}{w} \right)$$

Where:

a = dry mass of the lower 25ml of the suspension (g)

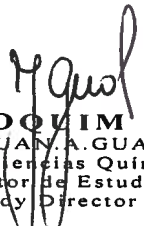
w = mass of the sample taken (g)

• Data:

	<i>Determination 1</i>	<i>Determination 2</i>
a	0.0744	0.0929
w	1.0013	0.9995

• Results:

<i>Suspensibility</i>	<i>Results</i>		
	<i>Determination 1</i>	<i>Determination 2</i>	<i>Average</i>
	102.75 % w/w	100.68 % w/w	101.7 % w/w

  
**MICROQUIM S.A.**  
 LIC. JUAN A. GUAL  
 Lic. en Ciencias Químicas  
 Director de Estudio  
 Study Director

  
**MICROQUIM S.A.**  
 LIC. BETINA ZACARIAS  
 Lic. en Ciencias Químicas  
 Co-Directora Técnica  
 Co-Technical Director

**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Av. J. B. Rosas 661 - C.A.B.A.  
1215-07/2000 - B.A. Argentina  
Teléfono: (5411) 4740-9921 - 5 x 4  
info@oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: **MICROQUIM S.A., DIVISIÓN INTERNACIONAL**

Address of the Facility: **Av. Trunvirato 3447 - CABA**

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit.

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-PRO-BPL v2, F.e.V. = 01 diciembre-2009



## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Low temperature stability

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30379

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14090 <i>a</i>	<i>Study Plan Auditing</i>	02.11.2010
14090 <i>b</i>	<i>Study Auditing</i>	05.31.2010
14090 <i>c</i>	<i>Final Report Auditing</i>	08.11.2010
14090 <i>d</i>	<i>Auditor's Report to Direction and Study Director</i>	08.12.2010

*Dr. Ana Inés Chanfreau*  
Veterinarian

*GLP Quality Assurance Unit*

## Density of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

### **Guidelines:**

**EPA OPPTS 830.7300 / OECD 109 /**

**CIPAC MT 3 – Pyknometer method – Procedure for liquids**

Test number:

**FOBR 6-30380**

**ID 50907**

Date:

**March 22<sup>nd</sup> 2010**

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

**Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA**

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

5MIC6100102432a



Study No.: FOBR 6-30380

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**MICROQUIM S.A.**  
Chemistry Department

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## **ANNEXS**

ANNEX I: GLP Certificate issued by OAA	11
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GLP Quality Assurance Unit Statement

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Density of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30380

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

## **B) PREFACE**

### **B.1 GENERAL**

**Title:** Density of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA.

**Study number:** FOBR 6-30380

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

**Study No.:** FOBR 6-30380

Page 4 of 11

**MICROQUIM S.A.**  
Chemistry Department



### B.3) SCHEDULE

Experimental stage initiation date: February 25<sup>th</sup> 2010

Experimental stage finalization date: February 26<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development Accreditation** as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: EPA OPPTS 830.7300 / OECD 109 / CIPAC MT 3 – Pyknometer method – Procedure for liquids Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure “Relative Density Determination by Pyknometer” (POE 37-QG/04).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

### C) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch Number:** 025/2009

Test	Method	Results
Density	EPA OPPTS 830.7300 OECD 109 CIPAC MT 3 – Pyknometer method – Procedure for liquids	1.090 g/ml at 25 °C

## D) INTRODUCTION

### D.1 Purpose

The aim of this test is to determine the density of the sample.  
The test has been carried out according to the specified methods.

### D.2 Study guides

The following test was realized according to the following guide:

EPA OPPTS 830.7300

OECD 109

CIPAC MT 3 – Pyknometer method – Procedure for liquids

### D.3 Definitions

The density of a solid or liquid substance is defined as the mass of the substance occupying unit volume at a stated temperature. When reporting the density of a solid or liquid, the units of mass and volume used must all be explicitly stated, e.g., grams per milliliter at t°C.

### D.4 Test description

After clean and dry weigh the empty pyknometer ( $P_v$ ). Fill the pyknometer with pure water, which has been freshly boiled and cooled to room temperature and immersed in a thermostatic bath. Reweigh the pyknometer ( $P_a$ ). After empty and dry the pyknometer fill it with the liquid being examined, which has been immersed in a thermostatic bath. Reweigh the pyknometer ( $P_m$ ).

$$\text{Density (g/ml)} = \frac{P_m - P_v}{P_a - P_v} \times D_a$$

Where:

$P_v$ : weight of the empty pyknometer.

$P_a$ : weight of the pyknometer with water.

$P_m$ : weight of the pyknometer with sample.

$D_a$ : density of water at test temperature (in g/ml).

## **E) METHODS AND MATERIALS**

### **E.1 Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

### **E.2 Apparatus**

- Pyknometer
- Thermometer (DQ-096)
- Analytical balance (DQ-010):
  - Manufacturer: OHAUS CORPORATION
  - Model: OHAUS Explorer
  - Maximum weight: 210 g
  - Precision: 0.1 mg
  - Calibration Company: Sartorius
  - Calibration Date: July 15<sup>th</sup> 2009
  - Expiration Date: July 2010

### **E.3 Reagents and solvents**

- Deionized water



**F) DATA**

	Weight (g)	
Empty Pyknometer ( $P_v$ )	12.0615	13.9183
Pyknometer with water ( $P_a$ )	36.6075	38.7354
Pyknometer with sample ( $P_m$ )	38.7684	41.1452

Test temperature: 25 °C

Density of water at 25 °C: 0.99708 g/ml

**G) RESULTS**

Density at 25 °C (g/ml)	
1.085	1.090
1.094	

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No.: FOBR 6-30380

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**MICROQUIM S.A.**  
Chemistry Department

**ANNEX I**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

PROCESOS  
DE Acreditación  
ISO 9001  
ISO 14001  
ISO 17025

Av. Julio A. Roca 1051-1053, Sección 8 y 9,  
C1076TASB, Bs. Aires, Argentina  
Teléfono: 54-11-4364-3962 / 3964  
info@oaa.org.ar • www.oaa.org.ar

OAA- Organismo Argentino de Acreditación  
FT3-(PRO-8PL) v2. F.e.V = 01-diciembre-2009

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

Study No.: FOBR 6-30380

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**MICROQUIM S.A.**  
Chemistry Department

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Density

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30380

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14091 a	Study Plan Auditing	02.11.2010
14091 b	Study Auditing	02.25.2010
14091 c	Final Report Auditing	08.11.2010
14091 d	Auditor's Report to Direction and Study Director	08.12.2010

*Dr. Ana Inés Chanfreau*  
**Veterinarian**

**GLP Quality Assurance Unit**

## Alkalinity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Guideline: CIPAC MT 31**

Test number:

FOBR 6-30381

ID 50907

Date:

June 16<sup>th</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

7MIC4100102430a





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## **ANNEX**

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## **GLP Quality Assurance Unit Statement**



**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Alkalinity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30381

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
*Chemical Sciences Graduated*  
*Study Director*

11 AGO. 2010

Study No.: FOBR 6-30381

Page 3 of 11

MICROQUIM S.A.  
Chemistry Department

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Alkalinity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE, DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30381

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. Av. Triunvirato 3447 (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Lautaro Castro García  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

**Study No.:** FOBR 6-30381

**Page** 4 of 11

**MICROQUIM S.A.**  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: May 14<sup>th</sup> 2010

Experimental stage finalization date: May 14<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:
  - OAA (Argentina)**
  - ANAB (U.S.A.)**
  - UKAS (United Kingdom)**
  - INMETRO (Brazil)**
- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development Accreditation** as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDRONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 31 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Determination of Alkalinity/Alkalinity" (POE 42-QG/09).

### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

### C) PURPOSE

The aim of this test will be to determine the Alkalinity of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Alkalinity has been carried out according to the specified methods. The results are included in the summary of results of this report.

## D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch Number:** 250/2009

Test	Method	Results
Alkalinity	CIPAC MT 31	<b><i>Alkalinity (Free): 3.5 % w/w calculated as NaOH</i></b>



## E) TEST METHODS AND RESULTS

### E.1 Alkalinity

- Initial considerations

This method is suitable for determining alkalinity in technical or formulated pesticides. It does not allow the determination of acids or alkaline which are insoluble in acetone-water mixtures.

- Purpose: The aim of this test is to determinate the Alkalinity in the sample of the sample.

- Apparatus: Described in "procedure"

- Methodology: CIPAC MT 31

- Procedure:

- ✓ **Reagents:**

- Acetone
- Hydrochloric acid 1N
- Methyl red indicator solution

- ✓ **Apparatus:**

- Measuring cylinders 50 ml and 100 ml
- Two conical flasks 250 ml
- Burette 25 ml
- Filter flask 500 ml

Weight exactly around about 10 g of the sample and dissolve in 25 ml of acetone, with gentle warming if necessary. Add 75ml of distilled water and titrate immediately with sodium hydroxide solution, in the presence of methyl red. Carry out a blank determination on acetone (25 ml) and distilled water (75 ml) with sodium hydroxide.

- Calculation:

The alkalinity is calculated as:

$$\% \text{ p/p HCl} = \frac{4.001 \text{ N (t-b)}}{W}$$

Weight of the sample:

W<sub>1</sub>: 9.9976 g

W<sub>2</sub>: 10.0012 g

Normality of HCl (N): HCl 1 N

ml of HCl used for the sample (t):

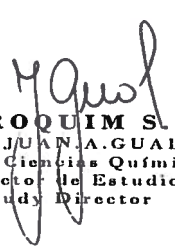
t<sub>1</sub>: 8.60 ml


t<sub>2</sub>: 8.90 ml

ml of HCl used for the blank (b): 0.1 ml

- Result:

**Alkalinity (average): 3.5 % w/w calculated as NaOH**

  
**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

  
**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No.: FOBR 6-30381

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**MICROQUIM S.A.**  
Chemistry Department

**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO
  - Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Av. Julio A. Roca 651 D, Sector 1427  
C1427AAB Buenos Aires, Argentina  
Teléfono: (54-11) 4344-3882  
info@oaa.org.ar www.oaa.org.ar

Av. Julio A. Roca 651 D, Sector 1427  
C1427AAB Buenos Aires, Argentina  
Teléfono: (54-11) 4344-3882  
info@oaa.org.ar www.oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL

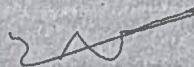
Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Trilunvirato 3447 - CABA

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit



President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009

OAA- Organismo Argentino de Acreditación  
F13-(PRO-BPL) V2, F.e.V = 01-diciembre-2009

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Alkalinity

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30381

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14092 a	Study Plan Auditing	02.11.2010
14092 b	Study Auditing	05.14.2010
14092 c	Final Report Auditing	08.11.2010
14092 d	Auditor's Report to Direction and Study Director	08.12.2010

*Dr. Ana Inés Chanfreau*  
Veterinarian

*GLP Quality Assurance Unit*



**pH of NES FUNGICIDA, ACARICIDA e**  
**INSECTICIDA SELECTIVO - Líquido**

**Guideline: EPA OPPTS 830.7000 / CIPAC MT 75**

**Test number:**

**FOBR 6-30382**

**ID 50907**

**Date:**

**June 16<sup>th</sup> 2010**

**Sponsor:**

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

**Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA**

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

6MIC9100102428a

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**GLP Quality Assurance Unit Statement**

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** pH of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30382

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** pH of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES – Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA.

**Study number:** FOBR 6-30382

**Test Product:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427), Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427), Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

### B.3) SCHEDULE

Experimental stage initiation date: February 23<sup>rd</sup> 2010

Experimental stage finalization date: February 23<sup>rd</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD. SENASA 230/2000 Resolution. Commission Directive 2004/10/EC of the European Parliament. Issued by **Bureau Veritas Certification**.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ



#### B.5) TEST GUIDE

This study will be performed according with the following method: EPA OPPTS 830.7000 / CIPAC MT 75 Test guides, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "pH Determination" (POE 44 QG/11).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

**C) SUMMARY OF RESULTS**

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 250/2009

Test	Method	Results
pH	EPA OPPTS 830.7000 CIPAC MT 75	10.2 at 23 °C

## **D) INTRODUCTION**

### **D.1 Purpose**

The aim of this test is to determine the pH of the sample.

The test has been carried out according to the specified methods.

### **D.2 Study guides**

The following test was realized according to the following guide:

EPA OPPTS 830.7000

CIPAC MT 75

### **D.3 Definitions**

The pH value of an aqueous liquid is defined as the common logarithm of the reciprocal of the hydrogen ion concentration expressed in g/L.

### **D.4 Test description**

Weigh 1g of sample, transfer to the measuring cylinder containing water (about 50ml), make up to 100ml with water, and shake vigorously for 1 min. Allow any suspension to settle for 1 min and then measure the pH of the supernatant liquid.

## **E) METHODS AND MATERIALS**

### **E.1 Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

### **E.2 Apparatus**

- pH metro *Altronix* TPX II
- Measuring cylinder of 100ml.
- Thermometer (DQ-096)
- Analytical balance (DQ-010):
  - Manufacturer: OHAUS CORPORATION
  - Model: OHAUS Explorer
  - Maximum weight: 210 g
  - Precision: 0.1 mg
  - Calibration Company: Sartorius
  - Calibration Date: July 15<sup>th</sup> 2009
  - Expiration Date: July 2010

### **E.3 Reagents and solvents**

- Deionized water

**F) RESULTS**

**Test temperature: 23°C**

pH	
10.2	10.2
10.2	

**MICROQUIM S.A.**  
**LIC. JUAN A GUAL**  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
**LIC BETINA ZACARIAS**  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No. FOBR 6-30382

Page 10 of 11

**MICROQUIM S.A.**  
Chemistry Department



**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Provincia de Buenos Aires  
Calle 14 de Julio 1000  
Código Postal 1000  
Teléfono: (5411) 4554-1415  
Fax: (5411) 4554-7860  
E-mail: info@oaa.org.ar

Av. Julio A. Roca 651 5º Piso, C y D  
C1067ABH Buenos Aires, Argentina  
Teléfono: (5411) 4549-3962 • 3 / 4  
info@oaa.org.ar • www.oaa.org.ar

OAA- Organismo Argentino de Acreditación  
F13 (PRO-BPL) v2, F.e.V = 01-diciembre-2009

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

Inspection Date:

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009

Study No. FOBR 6-30382

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**MICROQUIM S.A.**  
Chemistry Department

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: pH

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30382

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14093 a	Study Plan Auditing	02.11.2010
14093 b	Study Auditing	02.23.2010
14093 c	Final Report Auditing	08.11.2010
14093 d	Auditor's Report to Direction and Study Director	08.12.2010

*Dr. Ana Inés Chanfreau*  
Veterinarian

*GLP Quality Assurance Unit*

Flash point of NES FUNGICIDA, ACARICIDA e  
INSECTICIDA SELECTIVO - Líquido

**Guideline: CIPAC MT 12 – Closed Cup**

Test number:

FOBR 6-30383

ID 50907

Date:

June 15<sup>th</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

8MIC7100102426a

Study No. FOBR 6-30383

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**MICROQUIM S.A.**  
Chemistry Department

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## **GLP Quality Assurance Unit Statement**



**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Flash point of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30383

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010



## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Flash point of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30383

**Test Product:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

Study No. FOBR 6-30383

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MICROQUIM S.A.  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 23<sup>rd</sup> 2010

Experimental stage finalization date: February 23<sup>rd</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development Accreditation** as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 12 – Closed Cup Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure “Flash point Determination” (POE35QG/02).

### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

## C) PURPOSE

The aim of this test will be to determine the Flash point of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

The Flash point has been carried out according to the specified methods. The results are included in the summary of results of this report.

**D) SUMMARY OF RESULTS**

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 250/2009

Test	Method	Results
Flash point	CIPAC MT 12 Closed Cup	<i>Non flammable below 103°C, temperature at which the sample boils.</i>

## E) TEST METHODS AND RESULTS

### E.1 Flash Point

- Initial considerations**

Flash point is obtained by measuring the lowest temperature at which the vapor/air mixture over a substance will ignite.

The tests are very important because they are used in various ways to control the conditions under which substances, potentially dangerous as fire hazards, are stored, used and transported.

If the analyzed substance is a solid with a melting point higher than 70°C the determination doesn't correspond.

- Purpose:** The aim of this test is to determine the flash point of the sample.

- Apparatus:** Closed cup.

- Methodology:** CIPAC MT 12 - Closed cup

- Procedure:**

50.0 g of the sample are placed in the equipment's cup and with the lid closed heat it slowly at a constant rate. The temperature of the interior of the cup is determined by a thermocouple and it is indicated on the equipment's display. A small flame of specified size is directed into the cup at regular intervals, of temperature increment. The flash point is taken as the lowest temperature at which application of the test flame causes the vapor above the sample to ignite. The determination is performed by duplicate.

- Calculation:** It doesn't correspond.

- Results:**

Flash point	Results		
	Determination A	Determination B	Average
	Non flammable below 103°C, temperature at which the sample boils.	Non flammable below 103°C, temperature at which the sample boils.	Non flammable below 103°C, temperature at which the sample boils.

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director



**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA** ✓

Organismo  
Argentino de  
Acreditación

Resolución  
C/106740/B3 Bs. As. Argentina  
Fecha: 04/11/2009  
Nº: 106740/B3-2009

Av. Julio A. Roca 651 B° Sec. 6 y 9  
C 106740/B3 Bs. As. Argentina  
Teléfono: 54-11 4329-3562 • 3 r.l.a.  
info@oaa.org.ar • www.oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL

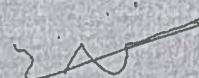
Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

Inspection Date:

August 12, 13 and 14, 2009

Inspection and study audit



President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-(PRO BPL) v2. Fe V= 01-diciembre-2009

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Flash point

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30383

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14094 a	Study Plan Auditing	02.11.2010
14094 b	Study Auditing	02.23.2010
14094 c	Final Report Auditing	08.11.2010
14094 d	Auditor's Report to Direction and Study Director	08.12.2010

**Dr. Ana Inés Chanfreau**  
Veterinarian

**GLP Quality Assurance Unit**

Persistent foaming of  
NES FUNGICIDA, ACARICIDA e INSECTICIDA  
SELECTIVO - Líquido

**Guideline: CIPAC MT 47**

Test number:  
FOBR 6-30384

ID 50907

Date:  
June 15<sup>th</sup> 2010

Sponsor:  
**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**  
Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

OMIC6100102424a



Study No.: FOBR 6-30384

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MICROQUIM S.A.  
Chemistry Department

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GLP Quality Assurance Unit Statement



**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Persistent foaming of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30384

This study was conducted according to the principles of good laboratory practices - OECD 1998, and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A., and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Qual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

## **B) PREFACE**

### **B.1 GENERAL**

**Title:** Persistent foaming of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30384

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

**Study No.:** FOBR 6-30384

**Page** 4 of 10

**MICROQUIM S.A.**  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 23<sup>rd</sup> 2010

Experimental stage finalization date: February 23<sup>rd</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development Accreditation** as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDRONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 47 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Persistent foaming Determination" (POE41-QG/08).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

### C) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch Number:** 250/2009

Test	Method	Results	
		Time	Volume of foam (ml)
Persistent foaming	CIPAC MT 47	10sec	0
		1min	0
		3min	0
		12min	0



## **D) INTRODUCTION**

### **D.1 Purpose**

The aim of this test is to determine the persistent foaming of the sample.

The test has been carried out according to the specified methods.

### **D.2 Study guides**

CIPAC MT 47

### **D.3 Test description**

Weigh 1.0g or 1.0ml of sample into a 100ml measuring cylinder containing 95 ml of Standard Water D\* and make up to 100ml. Stopper the cylinder and invert 180° 30 times. Stand the cylinder on the bench and leave undisturbed for the specified time. Note the volume of foam after 10s, 1, 3 and 12min.

In case of suspension concentrates a 250ml measuring cylinder should be used, the final volume of water should be 200ml and the mass of sample should be the mass that reproduces the maximum concentration recommended for use.

\* Reagent: Standard water D: 342 ppm hardness (expressed as  $\text{CaCO}_3$ ) - pH: 6.0-7.0; Ca:Mg: 80:20 (CIPAC MT 18.1.4)

## **E) METHODS AND MATERIALS**

### **E.1 Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

### **E.2 Apparatus**

- Measuring cylinder 100ml or 250ml (depending on the formulation of the sample)

### **E.3 Reagents and solvents**

- Standard Water D\*

\* Reagent: Standard water D: 342 ppm hardness (expressed as  $\text{CaCO}_3$ ) - pH: 6.0-7.0; Ca:Mg: 80:20 (CIPAC MT 18.1.4)

## **F) RESULTS**

Mass of sample (g)	Final Volume (ml)	Volume of foam (ml)			
		10 s	1 min	3 min	12 min
0.9984	100	0	0	0	0
1.0043	100	0	0	0	0
Average		0	0	0	0

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No.: FOBR 6-30384

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**MICROQUIM S.A.**  
Chemistry Department

**ANNEX I**  
**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Av. Julio A. Roca 571 - 01 Sur - B 1100  
Tel.: (5411) 4349-2662 / 4349-2663  
info@oaa.org.ar • www.oaa.org.ar

Av. Julio A. Roca 571 - 01 Sur - B 1100  
Tel.: (5411) 4349-2662 / 4349-2663  
info@oaa.org.ar • www.oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

Inspection Date:

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-(PRO-BPL) v2 Fev 01 diciembre-2009

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Persistent foaming

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30384

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14095 a	Study Plan Auditing	02.11.2010
14095 b	Study Auditing	02.23.2010
14095 c	Final Report Auditing	08.11.2010
14095 d	Auditor's Report to Direction and Study Director	08.12.2010

**Dr. Ana Inés Chanfreau**  
Veterinarian

**GLP Quality Assurance Unit**



## Viscosity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Guideline: OECD 114**

Test number:

FOBR 6-30385

ID 50907

Date:

June 16<sup>th</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

2MIC4100102422a

Test Number FOBR 6-30385

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MICROQUIM S.A.  
Chemistry Department



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## **GLP Quality Assurance Unit Statement**

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Viscosity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30385

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

**11 AGO. 2010**

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Viscosity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30385

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

Test Number FOBR 6-30385

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MICROQUIM S.A.  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 23<sup>rd</sup> 2010

Experimental stage finalization date: February 23<sup>rd</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development Accreditation** as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SED RONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: OECD 114 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Viscosity Determination" (POE48-QG/15).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

#### C) PURPOSE

The aim of this test will be to determine the Viscosity of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Viscosity has been carried out according to the specified methods. The results are included in the summary of results of this report.



#### D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 250/2009

Test	Methodology	Results
Viscosity	OECD 114	2.71 cP (24 °C)

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

## E) TEST METHODS AND RESULTS

### E.1 Viscosity

- Purpose:**

The aim of this test will be to determine the viscosity of the sample.

- Apparatus:**

- ✓ Viscosimeter rotational (DQ-008):
  - Manufacturer: Brookfield ENG. Labs. Inc.
  - Model: LVDVI+
  - Calibration Company: Bioanalítica
  - Calibration Date: September 2009
  - Expiry Date: September 2010

- ✓ Thermometer (DQ-096)

- Methodology:** OECD 114

- Procedure:**

Place about 200 ml of sample in a beaker. Select a spindle and the rpm to perform the measuring. Connect the spindle to the viscosimeter. Place the spindle into the sample and start the rotation. The measuring must be evaluated and the data registered. If it is not stable the rpm or the spindle must be changed until a stable measurement is obtained. The determinations are performed in duplicate.

- Data:**

	Determination 1	Determination 2
Speed (rpm)	100	100
Spindle	S-01	S-01
Temperature	24°C	24°C

- Results:**

	Determination 1	Determination 2
Viscosity	2.70 cP	2.71 cP
Average	2.71 cP	

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

**F. Identification and characteristics of the test substance**  
(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

**ANNEX I:**

**GLP Certificate issued by OAA**

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**OAA**

Organismo  
Argentino de  
Acreditación

Microquim S.A.  
Buenos Aires, Argentina  
Tel.: (5411) 4554-1415  
Fax: (5411) 4554-7860  
E-mail: info@microquim.com  
http://www.microquim.com

Av. Julio A. Roca 851, 1º Piso, B. 1427  
(C1427 AAH) B. Aires, Argentina  
Tel.: (5411) 4554-1415  
Fax: (5411) 4554-7860  
E-mail: info@microquim.com  
http://www.microquim.com

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998)

REGISTRATION OF COMPLIANCE WITH GPL No 01

AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

Inspection Date:

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Roldi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-(PRO-BPL) v2, F.e.V. = 01 diciembre-2009

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Viscosity

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30385

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14096 a	Study Plan Auditing	02.11.2010
14096 b	Study Auditing	02.23.2010
14096 c	Final-Report Auditing	08.11.2010
14096 d	Auditor's Report to Direction and Study Director	08.12.2010

**Dr. Ana Inés Chanfreau**  
Veterinarian

**GLP Quality Assurance Unit**



## Corrosivity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Guideline: ASTM G-31-72**

Test number:

**FOBR 6-30386**

**ID 50907**

Date:

**June 16<sup>th</sup> 2010**

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

**Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA**

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

4MIC2100102420a



Test Number FOBR 6-30386

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**MICROQUIM S.A.**  
Chemistry Department

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## **ANNEX**

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GLP Quality Assurance Department

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Corrosivity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30386

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Gual**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

Test Number FOBR 6-30386

Page 3 of 13

**MICROQUIM S.A.**  
**Chemistry Department**

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Corrosivity of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30386

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

Test Number FOBR 6-30386

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MICROQUIM S.A.  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 25<sup>th</sup> 2010

Experimental stage finalization date: March 02<sup>nd</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ



#### B.5) TEST GUIDE

This study will be performed according with the following method: ASTM G-31-72 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Corrosivity Determination" (POE 34-QG/01).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

#### C) PURPOSE

The aim of this test will be to determine the Corrosivity of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Corrosivity has been carried out according to the specified methods. The results are included in the summary of results of this report.

## D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 250/2009

Test	Method	Results		
Corrosivity	ASTM G-31-72	<i>Material</i>	<i>Test N°1</i>	<i>Test N°2</i>
		<i>Aluminum</i>	<i>Slightly corrosive</i>	<i>Non corrosive</i>
		<i>Zinc</i>	<i>Non corrosive</i>	<i>Slightly corrosive</i>
		<i>Copper</i>	<i>Totally corrosive</i>	<i>Slightly corrosive</i>
		<i>Polyethylene</i>	<i>Non corrosive</i>	<i>Non corrosive</i>

## E) TEST METHODS AND RESULTS

### E.1 Corrosivity determination

- **Purpose:** The aim of this test will be to determine the corrosivity of the sample.
- **Apparatus:**
  - ✓ Analytical balance (DQ-010):
    - Manufacturer: OHAUS CORPORATION
    - Model: OHAUS Explorer
    - Maximum weight : 210 g
    - Precision: 0.1 mg
    - Calibration company: Sartorius
    - Calibration Date: July 15<sup>th</sup> 2009
    - Expiration date: July 2010
- **Methodology:** ASTM G-31-72
- **Procedure:**

#### TEST N° 1:

- ❖ Initial washing: Wash the materials to be tested with a mixture of detergent-water-alcohol and dry them with absorbent paper.
- ❖ Weigh the materials to be tested registering its initial weight in the following table.

Table N° 1

Material	Initial weight (mg)	Final weight (mg)	Obs
Aluminum (Sheet)	53.1	52.8	(2)
Zinc (Granulated metal)	389.5	389.5	N.A.
Copper (Sheet)	66.5	0	(4)
Polyethylene (Sheet)	2.1	2.1	N.A.

- NA: Macroscopic alterations are not observed.  
(1): A surface with slight corrosion is observed  
(2): An opaque surface is observed.  
(3): A surface with corrosion is observed  
(4): A surface with totally corrosion is observed

Test Number ESTUDIO

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MICROQUIM S.A.  
Chemistry Department

- ❖ **Contac form:** Submerge the materials to be tested into the sample (without diluting) in individual glass vessels.
- ❖ **Contact time:** 120 h
- ❖ **Temperature:** 54 °C
- ❖ **Final washing:** Wash again the materials to be tested with a mixture of detergent-water-alcohol until not observe more sample residue.
- ❖ **Observe the surface of the tested materials and register it weight in the table N° 1.**
- ❖ **According to the difference of weight before and after the test and define the observed corrosivity classification taking in account the following table.**

Table N° 2

<i>Weight difference (%) before and after the test</i>	<i>Classification</i>	<i>Observations</i>
0-2%	Non corrosive	N.A.
0-2%	Slightly corrosive	(1) (2)
2-20%	Slightly corrosive	N.A. (1) (2)
20-95%	Corrosive	(3)
95-100%	Totally corrosive	(4)

### TEST N° 2:

- ❖ **Initial washing:** Wash the materials to be tested with a mixture of detergent-water-alcohol and dry them with absorbent paper.
- ❖ **Weigh the materials to be tested registering their initial weight in the Table N° 1.**

PRIMER LABORATORIO ARGENTINO MONITOREADO POR EL OAA Y DECLARADO EN CONFORMIDAD CON LOS PRINCIPIOS DE LAS BUENAS PRACTICAS DE LABORATORIO DE LA OCDE (VER AREAS DE COMPETENCIA EN CERTIFICADO DE CONFORMIDAD DE OAA)  
CERTIFICACIÓN GLP N° 001 OTORGADA POR BUREAU VERITAS - CERTIFICACIÓN ISO 9001:2008 PARA EL SISTEMA DE GESTIÓN DE LA CALIDAD OTORGADA POR BUREAU VERITAS CON LA ACREDITACIÓN DEL OAA (ARGENTINA), ANAB (USA), UKAS (REINO UNIDO) E INMETRO (BRASIL) - LABORATORIO CERTIFICADO POR EL COFILAB - MIEMBRO DE CALIBA- HABILITACIONES: MINISTERIO DE SALUD N° 00001 y 2606; SENASA LR 0060 - INSCRIPCIÓN EN SEDRONAR N° RN858PQ - CERTIFICADO DE APTITUD AMBIENTAL (GCBA) RES. N° 077 REG N° 037

Table N° 1

<i>Material</i>	<i>Initial weight (mg)</i>	<i>Final weight (mg)</i>	<i>Obs</i>
<i>Aluminum (Sheet)</i>	47.3	47.3	N.A.
<i>Zinc (Granulated metal)</i>	244.6	244.6	(2)
<i>Copper (Sheet)</i>	69.4	69.4	(2)
<i>Polyethylene (Sheet)</i>	1.4	1.4	N.A.

NA: Macroscopic alterations are not observed.

(1): A surface with slight corrosion is observed

(2): An opaque surface is observed.

(3): A surface with corrosion is observed

(4): A surface with totally corrosion is observed.

- ❖ **Contac form:** Submerge the materials to be tested into a sample solution at 5% in individual glass vessels.
- ❖ **Contact time:** 120 h
- ❖ **Temperature:** 54 °C
- ❖ **Final washing:** Wash again the materials to be tested with a mixture of detergent-water-alcohol until not observe more sample residue.
- ❖ **Observe the surface of the tested materials and register it weight in the table N° 1.**
- ❖ **According to the difference of weight before and after the test and define the observed corrosivity classification taking in account the Table N° 2.**



• Results:

**TEST N°1:**

<i>Material</i>	<i>Results</i>
<i>Aluminum</i>	<i>Slightly corrosive</i>
<i>Zinc</i>	<i>Non corrosive</i>
<i>Copper</i>	<i>Totally corrosive</i>
<i>Polyethylene</i>	<i>Non corrosive</i>

**TEST N°2**

<i>Material</i>	<i>Results</i>
<i>Aluminum</i>	<i>Non corrosive</i>
<i>Zinc</i>	<i>Slightly corrosive</i>
<i>Copper</i>	<i>Slightly corrosive</i>
<i>Polyethylene</i>	<i>Non corrosive</i>

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Test Number FOBR 6-30386

Page 11 of 13

**MICROQUIM S.A.**  
Chemistry Department

**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Provincia de  
Buenos Aires  
Código Postal  
1427, C.A. 1427

Av. Julio A. Roca 681, 5° Sec. 6 y B  
1010 (6740B) Bs. As. Argentina  
Teléfono: 54-11-4349-3962 • 5 y B  
info@oaa.org.ar • www.oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-(PRO-BPL) v2, F.e.V = 01-diciembre-2009

Test Number FOBR 6-30386

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**MICROQUIM S.A.**  
Chemistry Department

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Corrosivity

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30386

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14097 a	Study Plan Auditing	02.11.2010
14097 b	Study Auditing	02.25.2010
14097 c	Final Report Auditing	08.11.2010
14097 d	Auditor's Report to Direction and Study Director	08.12.2010

*Dr. Ana Inés Chanfreau*  
Veterinarian

*GLP Quality Assurance Unit*



## Suspensibility of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Guideline: CIPAC MT 168**

Test number:

FOBR 6-30387

ID 50907

Date:

March 22<sup>nd</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**  
**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

3MIC7100102418a



Test Number FOBR 6-30387

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MICROQUIM S.A.  
Chemistry Department



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## Quality Assurance Unit Statement

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Suspensibility of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**STUDY NUMBER:** FOBR 6-30387

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Guadalupe**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

Test Number FOBR 6-30387

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MICROQUIM S.A.  
Chemistry Department

## **B) PREFACE**

### **B.1) GENERAL**

Title: Susceptibility of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

Sponsor: AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Study number: FOBR 6-30387

Test substance: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

Testing Institution: MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

Study Director's Address: MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

Test Number FOBR 6-30387

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MICROQUIM S.A.  
Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 25<sup>th</sup> 2010

Experimental stage finalization date: February 26<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDRONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 168 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Suspensibility for water dispersible granules Determination" (POE46-QG/13).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

#### C) PURPOSE

The aim of this test will be to determine the Suspensibility of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Suspensibility has been carried out according to the specified methods. The results are included in the summary of results of this report.



## D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 025/2009

Test	Method	Results
Suspensibility	CIPAC MT 168	<b>104.0 % w/w</b>

## E) TEST METHODS AND RESULTS

### E.1 Suspensibility

- Purpose: The aim of this test will be to determine the suspensibility of the sample.

- Apparatus:

- ✓ Measuring cylinder 250 ml
- ✓ Analytical balance (DQ-010):
  - Manufacturer: OHAUS CORPORATION
  - Model: OHAUS Explorer
  - Maximum weight : 210 g
  - Precision: 0.1 mg
  - Calibration company: Sartorius
  - Calibration Date: July 15<sup>th</sup> 2009
  - Expiration date: July 2010
- ✓ Heater (DQ-049):
  - Manufacturer: MHC, Industria Argentina
  - Precision:  $\pm 1$  °C
  - Calibration company: LENOR
  - Calibration date: July 30<sup>th</sup> 2009
  - Expiration date: July 2010

- Methodology: CIPAC MT 168

- Procedure:

Approximately 1.0 g of the sample was weighed with accuracy in a 100 ml beaker. Portions of Standard Water MT 18 were added, decanting quantitatively to a measuring cylinder of 250 ml, and adding to 250 ml with this water. The measuring cylinder was inverted 30 times in 1 minute rotating it 180°.

The measuring cylinder rested in a waterbath at 30 °C during 30 minutes. After the specified time 225 ml of the measuring cylinder content was remove by suction in approximately 15 seconds, taking care of not shaking the silt. The solids content in the sediment were determine gravimetrically in the remaining 25 ml of suspension at

the bottom of the test vessel, transferring the 25ml into a tarred Petri dish by rising with distilled water, and drying to constant weight.

$$\text{Suspensibility} = 111 \left( 1 - \frac{a}{w} \right)$$

Where:

a = dry mass of the lower 25ml of the suspension (g)

w = mass of the sample taken (g)

• Data:

	<i>Determination 1</i>	<i>Determination 2</i>
a	0.0635	0.0629
w	0.9918	1.0061

• Results:

<i>Suspensibility</i>	<i>Results</i>		
	<i>Determination 1</i>	<i>Determination 2</i>	<i>Average</i>
	103.89 % w/w	104.06 % w/w	104.0 % w/w

**MICROQUIM S.A.**  
LIC. JUAN. A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Test Number FOBR 6-30387

Page 9 of 11

**MICROQUIM S.A.**  
Chemistry Department

**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA** ✓

Organismo  
Argentino de  
Acreditación

Microquim  
Buenos Aires, Argentina  
Calle Triunvirato 3447  
C1427AAH

Av. 24 de Septiembre 1551 2º Piso, Pte. 9  
C1107A82 Buenos Aires, Argentina  
Teléfono: (54-11) 4554-1415 / 4554-7860  
E-mail: info@microquim.com

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: **MICROQUIM S.A., DIVISIÓN INTERNACIONAL**

Address of the Facility: **Av. Triunvirato 3447 - CABA**

Inspection Date:

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-PRO-BPL v2. F.e.V.: 01-diciembre-2009



## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Suspensibility

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30387

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14098 a	Study Plan Auditing	02.11.2010
14098 b	Study Auditing	02.25.2010
14098 c	Final Report Auditing	08.11.2010
14098 d	Auditor's Report to Direction and Study Director	08.12.2010

*Dr. Ana Inés Chanfreau*  
Veterinarian

*GLP Quality Assurance Unit*

## Wet sieving test of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Guidelines: CIPAC MT 185**

Test number:

FOBR 6-30388

ID 50907

Date:

June 16<sup>th</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE  
DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

5MIC5100102416a



Study No. FOBR 6-30388

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**MICROQUIM S.A.**  
Chemistry Department

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## **GLP Quality Assurance Unit Statement**

**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Wet sieving test of NES FUNGICIDA, ACARICIDA e INSECTICIDA  
SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

**STUDY NUMBER:** FOBR 6-30388

This study was conducted according to the principles of good laboratory practices - OECD 1998, and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM. S.A., and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium, for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

  
**Lic. Juan Guadalupe**  
Chemical Sciences Graduated  
Study Director

11 AGO, 2010

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Wet sieving test of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO  
- Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE  
AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30388

**Test Product:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires,  
Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos  
Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

**Study No.** FOBR 6-30388

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**MICROQUIM S.A.**  
Chemistry Department



### B.3) SCHEDULE

Experimental stage initiation date: February 24<sup>th</sup> 2010

Experimental stage finalization date: February 24<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas** Certification with accreditation of:
  - OAA (Argentina)**
  - ANAB (U.S.A.)**
  - UKAS (United Kingdom)**
  - INMETRO (Brazil)**
- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development** Accreditation as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

#### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 185 Test guide, adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Wet Sieving Test Determination" (POE49-QG/16).

#### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

#### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

#### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

#### C) PURPOSE

The aim of this test will be to determine the Wet sieving test of the product NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

The Wet sieving test has been carried out according to the specified methods. The results are included in the summary of results of this report.

## D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 250/2009

Test	Method	Results
Wet sieving test	CIPAC MT 185	<b>Residue (R) = 0.11%</b>

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

## E) TEST METHODS AND RESULTS

### E.1 Wet sieving test

- Purpose: The aim of this test will be to determine the wet sieving test of the sample.

- Apparatus:

- ✓ Sieve N° 200 (75  $\mu$ )
- ✓ Analytical balance (DQ-010):
  - Manufacturer: OHAUS CORPORATION
  - Model: OHAUS Explorer
  - Maximum weight : 210 g
  - Precision: 0.1 mg
  - Calibration company: Sartorius
  - Calibration Date: July 15<sup>th</sup> 2009
  - Expiration date: July 2010
- ✓ Heater (DQ-049):
  - Manufacturer: MHC, Industria Argentina
  - Precision:  $\pm 1$  °C
  - Calibration company: LENOR
  - Calibration date: July 30<sup>th</sup> 2009
  - Expiration date: July 2010

- Methodology: CIPAC MT 185

- Procedure:

Weigh with accuracy a certain quantity of the sample in a 250 ml beaker. Add around 100 ml of water to the glass. Then stir with the magnetic stirrer for 5 minutes, making no deliberate attempt to break up any lumps.

Leave it to rest 60 seconds and decant quantitatively in small portions to a mesh sieve N° 200 (IRAM 75  $\mu$ ), with the help of a fine water jet to distribute the suspension in a homogeneous way. Wash the deposited material during 10 minutes with a fine water jet. Transfer the residue to a tared glass dish with a jet of distilled water from a wash bottle. Dry to constant weight.

• Calculation:

$$R \% = \frac{\text{Mass of residue (g)} \times 100}{\text{Mass of sample (g)}}$$

Where R is the percentage residue on sieve mesh 200.

• Data:

	<i>Determination 1</i>	<i>Determination 2</i>
Mass of sample	10.0060 g	9.9958 g
Mass of residue	0.0111 g	0.0106 g

• Results:

<i>Residue (R)</i>	<i>Results</i>		
	<i>Determination 1</i>	<i>Determination 2</i>	<i>Average</i>
	0.11 %	0.11 %	0.11 %

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No. FOBR 6-30388

Page 9 of 11

**MICROQUIM S.A.**  
Chemistry Department



**F. Identification and characteristics of the test substance**  
(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

**ANNEX I:**

**GLP Certificate issued by OAA**

Página 1 de 1

**OAA**

Organismo  
Argentino de  
Acreditación

Av. J. B. Alberdi 1051 11° Piso, B. Aires  
C1105AAB21 B. Aires, Argentina  
Teléfono: (54-11) 47420-7000 • 47420-7001  
info@oaa.org.ar • www.oaa.org.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

**REGISTRATION OF COMPLIANCE WITH GPL No 01**

**AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI**

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Triunvirato 3447 - CABA

Inspection Date:

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13- (PRO-BPL) v2, F.e.V. = 01-diciembre-2009

## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Wet sieving test

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30388

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14099 a	Study Plan Auditing	02.11.2010
14099 b	Study Auditing	02.24.2010
14099 c	Final Report Auditing	08.11.2010
14099 d	Auditor's Report to Direction and Study Director	08.12.2010

*Dr. Ana Inés Chanfreau*  
Veterinarian

**GLP Quality Assurance Unit**

Stability study of NES FUNGICIDA, ACARICIDA e  
INSECTICIDA SELECTIVO - Líquido

**Guideline: CIPAC MT 46**

Test number:

FOBR 6-30389

ID 50907

Date:

March 22<sup>nd</sup> 2010

Sponsor:

**AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE**

**DE AGROSERVICIOS NES**

Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

Analysis performed by  
**MICROQUIM S.A.**  
Chemistry Department

4MIC6100102409a



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## **GLP Quality Assurance Unit Statement**



**A) COMPLIANCE STATEMENT WITH GOOD LABORATORY PRACTICES**

**TITLE:** Stability study of NES FUNGICIDA, ACARICIDA e INSECTICIDA  
SELECTIVO - Líquido

**TEST SUBSTANCE:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

**STUDY NUMBER:** FOBR 6-30389

This study was conducted according to the principles of good laboratory practices – (ENV/MC/CHEM (98) 17 OECD, EPA 40 CFR Part. 160, Resolution SENASA 230/2000, Directive 2004/10/CE of the European Parliament), and pursuant to the written protocol, authorized by the Sponsor and the Study Director of MICROQUIM S.A. and following the Standard Operating Procedures (SOP) stated in the Procedures of MICROQUIM S. A.

This report is a true and accurate record of the results obtained, and there were no known circumstances that could have affected the quality and integrity of the data.

The results obtained, as well as any storage medium for electronically recorded data, all documentation, protocol and final report are retained in the corresponding archives at MICROQUIM S.A.

*Lic. Juan Guál*  
**Lic. Juan Guál**  
**Chemical Sciences Graduated**  
**Study Director**

11 AGO. 2010

## **B) PREFACE**

### **B.1) GENERAL**

**Title:** Stability study of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Sponsor:** AJIM SRL / JORGE NATALIO.FELIPE.PEISAJOVICH. GALANTE DE AGROSERVICIOS NES - Av. Borrini 225, Resistencia (CP 3500), Chaco - ARGENTINA

**Study number:** FOBR 6-30389

**Test substance:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Testing Institution:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

**Study Director's Address:** MICROQUIM S.A. 3447 Triunvirato Ave. (1427). Buenos Aires, Argentina.

### **B.2) PROJECT STAFF**

**Study Director:** Lic. Juan Gual  
Chemical Sciences Graduated

**Technical staff:** Bruno Dente  
Chemical Technician

**Final report confection:** Alicia Liébana

**Archive Responsible:** Marcelo Oswaldo

**Study No.:** FOBR 6-30389

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Chemistry Department

### B.3) SCHEDULE

Experimental stage initiation date: February 11<sup>th</sup> 2010

Experimental stage finalization date: February 26<sup>th</sup> 2010

### B.4) CERTIFICATIONS, REGISTRATION, ACCREDITATIONS AND REGISTERS

- Certification in compliance with the Principles of Good Laboratory Practices of the OECD (1998), issued by the **OAA**.
- **GLP** Certification in accordance with: EPA 40 CFR PART 160 "Principles of Good Laboratory Practice and Compliance Monitoring" ENV/MC/CHEM (98) 17 OECD.
- **ISO 9001:2008** Certification for the Quality Management System, issued by **Bureau Veritas Certification** with accreditation of:

**OAA (Argentina)**

**ANAB (U.S.A.)**

**UKAS (United Kingdom)**

**INMETRO (Brazil)**

- **COFILAB** (Laboratories Control Committee)
- **CALIBA** (Argentine Chamber of Independent Laboratories of Bromatological, Environmental and Other Related Analysis)
- **SENASA** Accreditation (National Health Service and agro food quality) LR 0060 as laboratory of agrochemicals analysis to perform physicochemical, toxicological studies and determination of pesticide residues in vegetal matrixes.
- Animal facility subscribed at **SENASA** (National Health Service and agro food quality) according to regulations of Resolution 617/02 for the production of toxicological and ecotoxicological data.
- **AACyTAL** (Argentinean Association of Science and Technology of Laboratory animals) No. 09-0076
- **Colombian Agricultural Institute (ICA)**, part of the Treaty of the Andean Pact, Resolution No. 03431 as a Quality Control Laboratory of chemical pesticides for agricultural use.
- **EPA** (Environmental Protection Agency) assigned laboratory code number 955079.
- **Environment Aptitude certificate** issued by the Government of the Autonomous City of Buenos Aires Res. 077 A.A. 123/2000 Law.
- **Provincial Agency for Sustainable Development Accreditation** as Laboratory of Industrial Analysis according to the provisions of Resolution No. 504/01. Registration No. 31.
- **SEDONAR** (Secretaryship of Programs to prevent the drug addiction and fight against the drug trafficking) N° RN 858 PQ

### B.5) TEST GUIDE

This study will be performed according with the following method: CIPAC MT 46 Test guide adopted on the 10<sup>th</sup> of March of 2008, and according to the standardized operating procedure "Accelerated storage stability Determination" (POE 39-Q6/06).

### B.6) GOOD LABORATORY PRACTICES

This study will be conducted in compliance with the institutional standard operating procedures. Test procedures will be periodically inspected by the quality Assurance Unit and the inspection dates will be included in the report.

This study will be performed according to the OECD principles of good laboratory practices.

### B.7) AMENDMENT PROCEDURE

This study plan may be amended by the Study Director and by the Sponsor in the event that his request. Detailed descriptions of all amendments shall be signed by the Study Director. The amendment will be effective upon the signature of the Director of the Study.

### B.8) ARCHIVING

The laboratory will preserve the following data at least for 6 years: protocol, report and original data, in the general archive situated at Triunvirato 3447, (1427) Buenos Aires, Argentina. During that period no data will be discarded without the Sponsor's consent

## C) PURPOSE

The aim of this test will be to determine the Stability study of NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido.

The Stability study has been carried out according to the specified methods. The results are included in the summary of results of this report.

## D) SUMMARY OF RESULTS

**Name:** NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO - Líquido

**Active ingredient:** Sulfur

**Batch No.:** 025/2009

	Test	Method	Results	
			Room conditions determination	Accelerated conditions determination
Stability study  CIPAC MT 46	Assay of active ingredient	Volumetric	13.68 % w/w 14.91 % w/v	13.37% w/w 14.87 % w/v
	Density	EPA OPPTS 830.7300 OECD 109 CIPAC MT 3 – Pyknometer method – Procedure for liquids	1.090 g/ml at 25 °C	1.112 g/ml at 25 °C
	Suspensibility	CIPAC MT 168	104.0 % w/w	104.0 % w/w



## **E) TEST METHODS AND RESULTS**

### **E.1 Stability study determination**

#### **E.1.1 Accelerated storage**

- Purpose: The objective is to accelerate the ageing of a product by heating.
- Apparatus:
  - ✓ Heater (DQ-049):
    - Manufacturer: MHC, Industria Argentina
    - Precision:  $\pm 1^{\circ}\text{C}$
    - Calibration company: LENOR
    - Calibration date: July 30<sup>th</sup> 2009
    - Expiration date: July 2010
- Methodology: CIPAC MT 46
- Procedure

A sample volume of around 50 ml, in a brown glass bottle provided with a screw cap, was stored in an oven during 14 days at  $54 \pm 2^{\circ}\text{C}$ .

After that period of time the sample was taken out of the oven, uncovered and allowed to cool naturally to room temperature.
- Results

Within a period of 24 h since incubation finished, the quantitative determination of the active was done.
- Calculations: It doesn't correspond

### E.1.2: Assay of active ingredient

- Purpose: The aim of this test is to do an Assay of active ingredient of the sample.
- Methodology: CIPAC 18, volume E, page 202
- Apparatus:
  - ✓ Analytical Balance (DQ-010):
    - Manufacturer: OHAUS CORPORATION
    - Model: OHAUS Explorer
    - Maximum weight: 210 g
    - Precision: 0.1 mg
    - Calibration Company: Sartorius
    - Calibration Date: July 15<sup>th</sup> 2009
    - Expiration Date: July 2010
- Reagents and solvents:
  - Sodium sulfite
  - Ethanol
  - Formaldehyde 35%
  - Starch
  - Acetic acid solution 20%
  - Titrate: 0.1006 N Standard iodine solution
- Procedure:
  - Determination

Weigh in a 250 ml Erlenmeyer, with accuracy of 0.1 mg, a sufficient quantity of sample that contains around 0.250 g of sulfur. Damp the sample completely with 25 ml of ethanol. Add 40 ml of water and 5 g of iodine sulfite. Connect a refrigerant and heat slowly the mixture to dissolve the sulfur, keep heating at refluxing during 1 hour stirring occasionally. After this time, all the sulfur particles should be dissolved. If not, keep heating the mixture.

If there is Sulfur, stir often the Erlenmeyer in order to drag the sulfur particles without dissolving. Cool the solution, remove the condenser and transfer quantitatively to a 250 ml flask. Bring to volume with water, stir and filtrate, if necessary. Transfer with volumetric pipette, 100 ml of the solution to an Erlenmeyer; add 12.5 ml of formaldehyde and leave stand the mixture for about 5 minutes. Add 10 ml of acetic acid and titrate immediately with a 0.1 N iodine solution, using starch as indicator.

• Calculations:

Calculate the content of Sulfur in the analyzed sample by the following means:

$$\text{Sulfur Content (\% w/w)} = \frac{8.02 \times V_M \times N}{M_M}$$

Where:

$V_M$  : volume, in milliliters, of the iodine solution used for the sample's assay;

$N$  : concentration, in normality, of the iodine solution;

$M_M$  : mass, in grams, of the portion of the sample;

$V_C$  : volume, in milliliters, of the iodine solution used for the Thiosulfate determination.

• Data and Results:

Sample	Sample mass (g)	Solution volume (ml)	Aliquot volume (ml)	Titrate volume (ml)	Sulfur % w/w	Average Sulfur w/w	Sulfur % w/v	Average Sulfur % w/v
Room conditions (1)	1.6480	250	100	28.0	13.71	13.68	14.94	14.91
Room conditions (2)	1.6428	250	100	27.8	13.65		14.88	
Accelerated conditions (1)	1.6482	250	100	27.4	13.41	13.37	14.91	14.87
Accelerated conditions (2)	1.6467	250	100	27.2	13.33		14.82	

### E.1.2.1 Density

- **Purpose**

The aim of this test is to determine the density of the sample at room and accelerated conditions.

The test has been carried out according to the specified methods.

- **Study guides**

The following test was realized according to the following guide:

EPA OPPTS 830.7300

OECD 109

CIPAC MT 3 – Pyknometer method – Procedure for liquids

- **Definitions**

The density of a solid or liquid substance is defined as the mass of the substance occupying unit volume at a stated temperature. When reporting the density of a solid or liquid, the units of mass and volume used must all be explicitly stated, e.g., grams per milliliter at t°C.

- **Test description**

After clean and dry weigh the empty pyknometer ( $P_v$ ). Fill the pyknometer with pure water, which has been freshly boiled and cooled to room temperature and immersed in a thermostatic bath. Reweigh the pyknometer ( $P_a$ ). After empty and dry the pyknometer fill it with the liquid being examined, which has been immersed in a thermostatic bath. Reweigh the pyknometer ( $P_m$ ).

$$\text{Density (g/ml)} = \frac{P_m - P_v}{P_a - P_v} \times D_a$$

Where:

$P_v$ : weight of the empty pyknometer.

$P_a$ : weight of the pyknometer with water.

$P_m$ : weight of the pyknometer with sample.

$D_a$ : density of water at test temperature (in g/ml).

• **Apparatus**

- ✓ Thermometer (DQ-096)
- ✓ Pyknometer
- ✓ Analytical balance (DQ-010):
  - Manufacturer: OHAUS CORPORATION
  - Model: OHAUS Explorer
  - Maximum weight: 210 g
  - Precision: 0.1 mg
  - Calibration Company: Sartorius
  - Calibration Date: July 15<sup>th</sup> 2009
  - Expiration Date: July 2010

• **Reagents and solvents**

- ✓ Deionized water

• **DATA**

Room conditions:

	Weight (g)	
Empty Pyknometer ( $P_v$ )	12.0615	13.9183
Pyknometer with water ( $P_a$ )	36.6075	38.7354
Pyknometer with sample ( $P_m$ )	38.7684	41.4152

Test temperature: 25°C

Density of water at 25°C: 0.99708 g/ml

Accelerated conditions:

	Weight (g)	
Empty Pyknometer ( $P_v$ )	12.9525	14.1031
Pyknometer with water ( $P_a$ )	37.3487	38.9375
Pyknometer with sample ( $P_m$ )	40.2853	41.6633

Test temperature: 25°C

Density of water at 25°C: 0.99708 g/ml

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• **RESULTS**

Room conditions:

Density at 25°C (g/ml)	
1.085	1.090
1.094	

Accelerated conditions:

Density at 25°C (g/ml)	
1.117	1.112
1.107	

### E.1.2.2 Suspensibility

- Purpose: The aim of this test will be to determine the suspensibility of the sample.
- Apparatus:
  - ✓ Measuring cylinder 250 ml
  - ✓ Analytical balance (DQ-010):
    - Manufacturer: OHAUS CORPORATION
    - Model: OHAUS Explorer
    - Maximum weight : 210 g
    - Precision: 0.1 mg
    - Calibration company: Sartorius
    - Calibration Date: July 15<sup>th</sup> 2009
    - Expiration date: July 2010
  - ✓ Heater (DQ-049):
    - Manufacturer: MHC, Industria Argentina
    - Precision:  $\pm 1$  °C
    - Calibration company: LENOR
    - Calibration date: July 30<sup>th</sup> 2009
    - Expiration date: July 2010
- Methodology: CIPAC MT 168
- Procedure:

Approximately 1.0 g of the sample was weighed with accuracy in a 100 ml beaker. Portions of Standard Water MT 18 were added, decanting quantitatively to a measuring cylinder of 250 ml, and adding to 250 ml with this water. The measuring cylinder was inverted 30 times in 1 minute rotating it 180°.

The measuring cylinder rested in a waterbath at 30 °C during 30 minutes. After the specified time 225 ml of the measuring cylinder content was remove by suction in approximately 15 seconds, taking care of not shaking the silt. The solids content in the sediment were determine gravimetrically in the remaining 25 ml of suspension at the bottom of the test vessel, transferring the 25ml into a tarred Petri dish by rising with distilled water, and drying to constant weight.

$$\text{Suspensibility} = 111 \left( 1 - \frac{a}{w} \right)$$

Where:

a = dry mass of the lower 25ml of the suspension (g)

w = mass of the sample taken (g)

• Data:

Room conditions

	<i>Determination 1</i>	<i>Determination 2</i>
a	0.0635	0.0629
w	0.9918	1.0061

Accelerated conditions

	<i>Determination 1</i>	<i>Determination 2</i>
a	0.0629	0.0633
w	0.9943	0.9982

• Results:

Room conditions

<i>Suspensibility</i>	<i>Results</i>		
	<i>Determination 1</i>	<i>Determination 2</i>	<i>Average</i>
	103.9 % w/w	104.1 % w/w	104.0 % w/w

Accelerated conditions

<i>Suspensibility</i>	<i>Results</i>		
	<i>Determination 1</i>	<i>Determination 2</i>	<i>Average</i>
	104.0 % w/w	104.0 % w/w	104.0 % w/w

**MICROQUIM S.A.**  
LIC. JUAN A. GUAL  
Lic. en Ciencias Químicas  
Director de Estudio  
Study Director

**MICROQUIM S.A.**  
LIC. BETINA ZACARIAS  
Lic. en Ciencias Químicas  
Co-Directora Técnica  
Co-Technical Director

Study No.: FOBR 6-30389

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**F. Identification and characteristics of the test substance**

(According to information provided by the Sponsor)

- Declared sample: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido
- Active ingredient: Sulfur
- Batch No.: 250/2009
- Formulation type: Flowable liquid and paste
- CAS No.: 7704-34-9
- Container: Plastic Bottle x 1 L.

COPY IN ENGLISH OF THE ORIGINAL REPORT IN SPANISH

**ANNEX I:**

**GLP Certificate issued by OAA**

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**OAA**

Organismo  
Argentino de  
Acreditación

Av. Julio A. Roca 657 5º Piso B y D  
C1107AQB Buenos Aires, Argentina  
Teléfono: 5411 4540-0900 / 3774  
microquim@microquim.com.ar

**CERTIFICATE OF COMPLIANCE WITH OECD  
PRINCIPLES OF GOOD LABORATORY  
PRACTICE**

Granted to the Testing Facility

**MICROQUIM S.A.**

The Argentine Accreditation Body -OAA- declares that according to the requirements of its Good Laboratory Practice Monitoring Program, the Test Facility MICROQUIM S.A. DIVISIÓN INTERNACIONAL carries out the non-clinical studies mentioned in this certificate in compliance with the Principles of Good Laboratory Practice of the Organisation for Economic Co-operation and Development -OECD- (1998).

REGISTRATION OF COMPLIANCE WITH GPL No 01

AUTHORIZED REPRESENTATIVE: Lic. Alejandro LUCINI

**Area of expertise:**

- 1- physical-chemical testing
- 2- toxicity testing
- 3- mutagenicity testing
- 4- environmental toxicity studies on aquatic and terrestrial organisms
- 5- studies on behaviour in water, soil and air, bioaccumulation
- 8- analytical and clinical chemistry testing

These types of non-clinical studies are performed in AGROCHEMICAL.

Carried out in: MICROQUIM S.A., DIVISIÓN INTERNACIONAL

Address of the Facility: Av. Trilunvirato 3447 - CABA

**Inspection Date:**

August 12, 13 and 14, 2009

Inspection and study audit

President  
Higinio B. Ridolfi

This certificate was issued in Buenos Aires on December 3, 2009.

OAA- Organismo Argentino de Acreditación  
F13-PRO-BPLV2, F.e.V. = 01 diciembre-2009

Study No.: FOBR 6-30389

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Chemistry Department



## GLP QUALITY ASSURANCE UNIT STATEMENT

TITLE: Stability study

TEST SUBSTANCE: NES FUNGICIDA, ACARICIDA e INSECTICIDA SELECTIVO -  
Líquido

STUDY NUMBER: FOBR 6-30389

This study was audited during the different stages of the study. The final report was compared with the study protocol and the Standard Operating Procedures (SOP) for this study.

The report is in accordance with the obtained data.

The audits were carried out according to the Standard Operating Procedures (SOP) established in the Procedures of MICROQUIM S.A.

Findings resulting from the audits were reported to Direction and the Study Director, a copy is kept in the archive "Internal Audits" of the Quality Assurance Unit of MICROQUIM S.A.

<i>Audit N°</i>	<i>Area Audited / Details</i>	<i>Audit date</i>
14100 a	Study Plan Auditing	02.11.2010
14100 b	Study Auditing	02.11.2010
14100 c	Final Report Auditing	08.11.2010
14100 d	Auditor's Report to Direction and Study Director	08.12.2010

**Dr. Ana Inés Chanfreau**  
Veterinarian

**GLP Quality Assurance Unit**