Accreditation No: LAB 247

Awarded to

Quality Control Laboratory,
Nuchem (Pvt.) Ltd.
187-Industrial Estate, Phase II, Multan,
Pakistan

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **28-10-2021** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017.**

The accreditation requires regular surveillance, and is valid until **27-10-2024.**

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

26-06-2023
Date

SD
Director General

Testing Laboratory.

Accreditation **Scope of Quality Control Laboratory,Nuchem (Pvt.) Ltd. 187-Industrial Estate, Phase II, Multan,Pakistan**

Permanent laboratory premises X

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Pesticides & Fertilizers	Physical Testing	Density (specific Gravity and Hydrometer) (Quantitative Analysis)	Nuchem/QCL/STM/2 Standard method CIPAC Hand Book Volume F (2007) MT 3 / Hydrometer
Pesticides	Physical Testing	Suspensibility (Quantitative Analysis)	Nuchem/QCL/STM/4 CIPAC Hand Book Volume F (2007) MT 15 / Water Bath
Pesticides	Physical Testing	Persistence Foam (Qualitative Analysis)	**Nuchem/QCL/STM/17** NLA-PT-T-P-06-08 MT-47
Pesticides & Fertilizers	Physical Testing	Wettability (Qualitative Analysis)	Nuchem/QCL/STM/3 Standard method CIPAC Hand Book Volume F (2007) MT 53 / Stop watch
Pesticides (S-Metolachlor)	Chemical Testing	S-Metolachlor (Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/14 CIPAC 400

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Sd
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Pesticides (Thiamethoxam)	Chemical Testing	Thiamethoxam (Assay Active / Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/9 CIPAC 637/TC/M- Hand Book Volume O
Pesticides (Clothianidin)	Chemical Testing	Clothianidin (Assay Active / Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/11 CIPAC 738/TC/M- CIPAC Hand Book Volume N
Pesticides (Pyraclostrobin)	Chemical Testing	Pyraclostrobin (Assay Active / Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/12 CIPAC 964/TC/M- Hand Book Volume O
Pesticides (Triazophos)	Chemical Testing	Triazophos (Assay Active / Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/13 CIPAC 353/TK/M/- Hand Book Volume H
Pesticides (Chlorfenapyr)	Chemical Testing	Chlorfenapyr (Assay Active / Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/08 CIPAC 570/TC/M- Hand Book Volume O
Pesticides (Lufenuron)	Chemical Testing	Lufenuron (Assay Active / Concentration) (Quantitative Analysis)	Nuchem /QCL/STM/10 CIPAC 704/EC/M/- Hand Book Volume M
Pesticides (Fipronil)	Chemical Testing	Fipronil (Assay Active / Concentration) (Quantitative Analysis)	Nuchem/QCL/STM/7 CIPAC 581/SC/M/- Hand Book Volume O

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Pesticides (Mesotrione)	Chemical Testing	Mesotrione (Assay Active / Concentration) (Quantitative Analysis)	**Nuchem/QCL/STM/24** **NLA-PT-T-P-23-02**
Pesticides (Azoxystrobin)	Chemical Testing	Azoxystrobin (Assay Active / Concentration) (Quantitative Analysis)	**Nuchem/QCL/STM/25** **NLA-PT-T-P-06-08**

Scope Extension

Pesticides & Fertilizers	Physical Testing	pH (Quantitative Analysis)	**Nuchem/QCL/STM/01** **CIPAC Volume –F** **75/MT/-**
Pesticides (Difenoconazole)	Chemical Testing	(Difenoconazole) (Assay Active / Concentration) (Quantitative Analysis)	**Nuchem/QCL/STM/26** **NLA-PT-T-P-07-5**
Pesticides (Lambda-Cyhalothrin)	Chemical Testing	(Lambda-Cyhalothrin) (Assay Active / Concentration) (Quantitative Analysis)	**Nuchem/QCL/STM/27** **NLA-PT-T-P-07-6**
Pesticides (Diflubenzuron)	Chemical Testing	(Diflubenzuron) (Assay Active / Concentration) (Quantitative Analysis)	**Nuchem/QCL/STM/28** **NLA-PT-T-P-06-09**
Fertilizers (Total Nitrogen) (Amonical, Urical,Nitrical)		Quantitative determination of active ingredient Total Nitrogen	**NUCHEM/QCL/STM/18** Based on reference: Official Methods of Analysis of AOAC International, 21st

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Liquid /Solid	Chemical Testing	Quantitative determination of active ingredient Ammonical Nitrogen Quantitative determination of active ingredient Nitrate Nitrogen Quantitative determination of active ingredient Uric Nitrogen	Edition, 2019,Volume I, Current through Revision, 2019. Method No. 2.4.05 (AOAC Official Method 978.02), Fertilizers Chapter 2 Page 14-15 (Kjeldhal,s distillation apparatus)
Fertilizers (Phosphorus) (Total & Available) Liquid /Solid	Chemical Testing	(Phosphorus) (Quantitative determination of active ingredient Citrate soluble & Total Phosphorous (P2O5)	**NUCHEM/QCL/STM/17** Based on reference: Pakistan standard for Single Super Phosphate (2nd edition) PS: 67-1996. PSQCA. Karachi Titrimetric Method
Fertilizers (Potash) Liquid /Solid	Chemical Testing	(Potash) Quantitative determination of active ingredient Water Soluble	**NUCHEM/QCL/STM/16** Based on reference: Richards. L.A. 1954 Diagnosis & Improvement of Saline & Alkali Soils. USDA, Agric, Hand Book 60, Washington, D.C. (Flame Photometery)
Fertilizers (Zinc) Total (Acid Soluble) & Water Soluble Liquid /Solid	Chemical Testing	(Zinc) Quantitative determination of active ingredient of Zinc (Acid Soluble & Water Soluble)	**NUCHEM/QCL/STM/21** Based on reference: Official Methods of Analysis of AOAC International, 21st Edition, 2019, Volume I, Current Through Revision, 2019. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30 (Atomic Absorption Spectrophotometry)
Fertilizers (Copper) Total (Acid Soluble) & Water Soluble Liquid /Solid	Chemical Testing	(Copper) Quantitative determination of active ingredient Copper (Acid Soluble & Water Soluble	**NUCHEM/QCL/STM/21** Based on reference: Official Methods of Analysis of AOAC International, 21st Edition, 2019, Volume I, Current Through Revision, 2019. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30 (Atomic Absorption Spectrophotometry)

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Fertilizers (Manganese) Total (Acid Soluble) & Water Soluble Liquid /Solid	Chemical Testing	(Manganese) Quantitative determination of active ingredient of Manganese (Acid Soluble & Water Soluble	**NUCHEM/QCL/STM/21** Based on reference: Official Methods of Analysis of AOAC International, 21st Edition, 2019, Volume I, Current Through Revision, 2019. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30 (Atomic Absorption Spectrophotometry)
Fertilizers (Iron) Total (Acid Soluble) & Water Soluble Liquid /Solid	Chemical Testing	Iron Quantitative determination of active ingredient of Iron (Acid Soluble & Water Soluble	**NUCHEM/QCL/STM/21** Based on reference: Official Methods of Analysis of AOAC International, 21st Edition, 2019, Volume I, Current Through Revision, 2019. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30 (Atomic Absorption Spectrophotometry)

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