

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 101
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Accreditation No: LAB 101

Awarded to

**TARA PESTICIDE AND FERTILIZER TESTING LABORATORY,
CHUNNIA BYPASS, 28-KM OFF THOKAR NIAZ BAIG, RAIWIND,
LAHORE, 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 **23-02-2016** 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 **22-04-2022**.

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

09-08-2021
Date

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Director General

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Testing Laboratory.

Accreditation Scope of **TARA PESTICIDE AND FERTILIZER TESTING LABORATORY, LAHORE, PAKISTAN.**

Permanent laboratory premises

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
Fertilizer	Chemical Testing	Phosphate (P ₂ O ₅)	TARA/PFTL/STM-001 Based on Standard Method of Chemical Analysis. Vol. I. London: Forgotten Books, 2013.
Fertilizer	Chemical Testing	Potash (K ₂ O)	TARA/PFTL/STM-002 Based on Food And Agricultural Materials Inspection Center (FAMIC), Japan, 2013.
Fertilizer	Chemical Testing	Zinc (Zn)	TARA/PFTL/STM-003 Based on International Pharmacopoeia. WHO 2014.
Fertilizer	Chemical Testing	Nitrogen (N)	TARA/PFTL/STM-004 Based On Merck KGaA, 64271, Darmstadt, Germany.
Insecticide	Chemical Testing	Acetamiprid	TARA/PFTL/STM-005 Based on CIPAC UK
Insecticide	Chemical Testing	Carbofuran	TARA/PFTL/STM-009 Based on Chemservice USA
Insecticide	Chemical Testing	Chlorfenapyr	TARA/PFTL/STM-011 Based on CIPAC UK
Herbicide	Chemical Testing	Clodinafop-Propargyl	TARA/PFTL/STM-012 Based on Chemservice USA

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Insecticide	Chemical Testing	Imidacloprid	TARA/PFTL/STM-015 Based on California Department Of Food And Agriculture (Method No. Em12.7)
Insecticide	Chemical Testing	Nitenpyram	TARA/PFTL/STM-019 Based on Chemservice USA
Insecticide	Chemical Testing	Monomehypo	TARA/PFTL/STM-018 Based on Chemservice USA
Insecticide	Chemical Testing	Pyriproxyfen	TARA/PFTL/STM-022 Based on Chemservice USA
Fungicide	Chemical Testing	Dinfenconazole	TARA/PFTL/STM-013 Based on Chemservice USA
Herbicide	Chemical Testing	Metsulfuron Methyl	TARA/PFTL/STM-017 Based on CIPAC UK
Fertilizer	Chemical Testing	Soluble Boron (B)	TARA/PFTL/STM-025 Gaines and Mitchell. 1979, Commun. Soil Sci. Plant Anal. 10:1099-1109.
Fertilizer	Chemical Testing	Sulphate-Sulphur (SO ₄ -S)	TARA/PFTL/STM-029 Based On Method-9038, EPA Publication SW-846, 2014
Insecticide	Chemical Testing	Triazophos	TARA/PFTL/STM-054 Based on RESTEK USA 2014
Insecticide	Chemical Testing	Deltamethrin	TARA/PFTL/STM-061 Based on CIPAC
Herbicide	Chemical Testing	Acetochlor	TARA/PFTL/STM-038 Based on RESTEK USA 2014
Herbicide	Chemical Testing	Atrazine	TARA/PFTL/STM-040 Based on CIPAC
Herbicide	Chemical Testing	Metribuzin	TARA/PFTL/STM-049 Based on CIPAC

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Fungicide	Chemical Testing	Flusilazole	TARA/PFTL/STM-048 Based on CIPAC
Fungicide	Chemical Testing	Metalaxyl	TARA/PFTL/STM-056 Based on RESTEK USA 2014
Fungicide	Chemical Testing	Azoxystrobin	TARA/PFTL/STM-060 Based on Journal of the Brazilian Chemical Society
Fungicide	Chemical Testing	Chlorothalonil	TARA/PFTL/STM-066 Analysis of Chlorothalonil by Liquid Chromatography The Japan Society for Analytical Chemistry Analytical Sciences 2009, Vol. 25
Fertilizer and Pesticides	Chemical Testing	Moisture (Karl-Fischer Titrations)	TARA/PFTL/STM-026 Based on International Fertilizer Industry Association 2014 and Operating Manual
Fertilizer and Pesticides	Physical Testing	Moisture (Free Water by Gravimetric Determinations)	TARA/PFTL/STM-098 International Fertilizer Industry Association 2014
Emulsifiable Concentrate	Physical Testing	Emulsion	TARA/PFTL/STM-030 Based on CIPAC
Wettable Powder and Water Dispersible Granules	Physical Testing	Suspensibility	TARA/PFTL/STM-031 Based on CIPAC
Liquid Pesticide and Fertilizer Formulations	Physical Testing	Density	TARA/PFTL/STM-042 Based on CIPAC
Fertilizer and Pesticides	Chemical Testing	pH	TARA/PFTL/STM-093 USDA Hand Book No. 60, USA
Fertilizer	Chemical Testing	Magnesium (Mg)	TARA/PFTL/STM-097 The International Pharmacopoeia. World Health Organization, 2014
Insecticide	Chemical Testing	Cartap Hydrochloride	TARA/PFTL/STM-010 Based on CIPAC
Insecticide	Chemical Testing	Fipronil	TARA/PFTL/STM-071 Based on CIPAC

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Insecticide	Chemical Testing	Dinotefuran	TARA/PFTL/STM-089 Based on CIPAC
Herbicide	Chemical Testing	Carfentrazone Ethyl	TARA/PFTL/STM-085 Analytical Method of Carfentrazone-ethyl By HPLC (Institute for the Control of Agrochemicals, Ministry of Agriculture, Beijing 100026)
Herbicide	Chemical Testing	Florasulam	TARA/PFTL/STM-088 Australian Pesticides and Veterinary Medicines Authority 2007
Herbicide	Chemical Testing	S-Metolachlor	TARA/PFTL/STM-023 Based on CIPAC
Insecticide	Chemical Testing	Flonicamid	TARA/PFTL/STM-096 Based on FAO guidelines. http://www.fao.org/agphome/ documents/Evaluation2015/ FLONICAMID (282)
Fertilizer	Chemical Testing	Nitrate Nitrogen (NO ₃ -N)	TARA/PFTL/STM-121 Olga C. Lastra. (2003) Derivative spectrophotometric determination of nitrate in plant tissue. Journal of AOAC International. 86 (6):1101-5
Soil Conditioner	Chemical Testing	Humic Acid	TARA/PFTL/STM-120 ISO 19822:2018. Fertilizers and soil conditioners – Determination of humic and hydrophobic fulvic acids concentrations in fertilizer materials.
Soil Conditioner	Chemical Testing	Organic Matter	TARA/PFTL/STM-130 Ill.S Tandon, 2005, Method of analysis of Soil, waters, fertilizer & organic manures. 2nd edition, Fertilizer Development and consultation Organization, New Delhi (India)
Insecticide	Chemical Testing	Abamectin	TARA/PFTL/STM-062 Based on Chem Service USA

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Herbicide	Chemical Testing	Ametryn	TARA/PFTL/STM-039 S., Jasmin et al (2011) Quantification of triazine herbicides in soil by microwave-assisted extraction and high performance liquid chromatography 178:111-119
Herbicide	Chemical Testing	Bensulfuron-methyl	TARA/PFTL/STM-082 Based on Chem Service USA
Insecticide	Chemical Testing	Betacyfluthrin	TARA/PFTL/STM-099 Based on Chem Service USA
Herbicide	Chemical Testing	Bispyribac Sodium	TARA/PFTL/STM-007 Based on Chem Service USA
Insecticide	Chemical Testing	Chlorantraniliprole	TARA/PFTL/STM-122 Based on Chem Service USA
Herbicide	Chemical Testing	Cyhalofop-butyl	TARA/PFTL/STM-103 Based on Chem Service USA
Insecticide	Chemical Testing	Emamectin Benzoate	TARA/PFTL/STM-068 Based on Chem Service USA
Herbicide	Chemical Testing	Halosulfuron-methyl	TARA/PFTL/STM-072 S. Ishimitsu, "Simultaneous determination of azimsulfuron, flazasulfuron and halosulfuron-methyl in grains, seeds, vegetables and fruits by HPLC," Journal of Health Science, vol. 48, no. 4, pp. 335-340, 2002.
Herbicide	Chemical Testing	Mesosulfuron-methyl	TARA/PFTL/STM-124 Based on Chem Service USA
Herbicide	Chemical Testing	Mesotrione	TARA/PFTL/STM-065 Based on Chem Service USA
Insecticide	Chemical Testing	Spirotetramate	TARA/PFTL/STM-119 Singh et al.: Journal of AOA C International Vol. 96, No.

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			3, 2013
Insecticide	Chemical Testing	Thiamethoxam	TARA/PFTL/STM-078 Based on Chem Service USA
Toxicology Studies	Physical Testing	Acute Dermal Irritation Test	TARA/PFTL/STM-128 OECD (2002), Test no 404: Acute Dermal irritation/Corrosion, OECD Publishing, Paris.
Toxicology Studies	Physical Testing	Acute Eye Irritation Test	TARA/PFTL/STM-125 OECD (2017), Test no 405: Acute Eye irritation/corrosion, OECD Guidelines for testing of chemicals, Section 4, OECD Publishing, Paris
Toxicology Studies	Physical Testing	Acute Dermal Toxicity Test	TARA/PFTL/STM-126 OECD (2017), Test no 402: Acute Dermal toxicity, OECD Guidelines for testing of chemicals, Section 4, OECD Publishing, Paris.
Toxicology Studies	Physical Testing	Acute Oral Toxicity Test	TARA/PFTL/STM-127 OECD (2008), Test no 425: Acute Oral toxicity: UP-and-Down Procedure, Guidelines for testing of chemicals, Section 4, OECD Publishing, Paris.
Toxicology Studies	Physical Testing	Skin Sensitization Test	TARA/PFTL/STM-129 Buehler E.V. (1965). Delayed contact hypersensitivity in the guinea pig. Arch. Dermatol., 91, 171

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