

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 193
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Accreditation No: LAB 193

Awarded to

**Agri Force Chemicals, Quality Control Laboratory,
Plot No. 217/218, Phase-II, industrial Estate-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 **26-02-2020** by Pakistan National Accreditation Council.

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

The accreditation requires regular surveillance, and is valid until **25-02-2026**.

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

27-03-2023
Date

SD
Director General

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Testing Laboratory.

Accreditation Scope Agri Force Chemicals Quality Control Laboratory,
Plot No. 217/218, Phase-II, Industrial Estate Phase-II, Multan, 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
<p>Pesticides (Finished/Formulated Products) Acetamiprid, Imidacloprid, Pendimethalin, Pyriproxyfen, Lufenuron, Eam mctin Benzoate, Clodinafop-Propargyl, Chlorpyrifos, Fipronil LambdaCyhalothrin, Bifenthrin, Nitenpyram, Atrazine, Mesotrione, Chlorfenapyr, Diafenthiuron, Triazophos, Carbofuran, Cartap HCl, Monomehypo</p> <p>Fertilizers (Finished/Formulated Products) Potash (K₂O), Phosphorus (P₂O₅), Humic Acid, Zinc (Zn), Boron (B), Nitrogen (N)</p>	Physical Testing	Quantitative Determination of pH	<p>(AFC/QCL/STM-001) Verified Method based on CIPAC Hand Book, Volume F, MT 75, Pg #205. (pH Meter Method)</p>
<p>Pesticides (Finished/Formulated Products) Acetamiprid, Imidacloprid, Pendimethalin, Pyriproxyfen, Lufenuron, Eam mctin Benzoate, Clodinafop-Propargyl, Chlorpyrifos, Fipronil LambdaCyhalothrin, Bifenthrin, Nitenpyram, Atrazine, Mesotrione, Chlorfenapyr, Diafenthiuron, Triazophos, Carbofuran, Cartap HCl, Monomehypo</p>	Physical Testing	Quantitative Determination of Density	<p>(AFC/QCL/STM-016) Verified Method based on CIPAC Hand Book, Volume F, MT 3.1, Pg #11. (Hydrometer Method)</p>

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Fertilizers <i>(Finished/Formulated Products)</i> Potsh (K ₂ O) , Phosphorus (P ₂ O ₅), Humic Acid, Zinc (Zn), Boron (B), Nitrogen (N)	Physical Testing	Quantitative Determination of Density	(AFC/QCL/STM-016) Verified Method based on CIPAC Hand Book, Volume F, MT 3.1, Pg #11. (Hydrometer Method)
Pesticides <i>(Finished/Formulated WP, WG, WDG, EC, SC, OD, GR Products)</i> Acetamiprid, Imidacloprid, Pendimethalin, Pyriproxyfen, Lufenuron, Eam mctin Benzoate, Clodinafop- Propargyl, Chlorpyrifos, Fipronil Lambda Cyhalothrin, Bifenthrin, Nite npyram, Atrazine, Mesotrione, Chorfen apyr, Diafenturon, Triazophos, Carbo furan, Cartap HCl, Monomehypo	Physical Testing	Quantitative Determination of Suspensibility	(AFC/QCL/STM-017) Verified Method based on CIPAC Hand Book, Volume K, MT 184, Pg. #142-145 (Gravimetric Method)
Pesticides <i>(Finished/Formulated WP, WG, WDG, EC, SC, OD, GR Products)</i> Acetamiprid, Imidacloprid, Pendimethalin, Pyriproxyfen, Lufenuron, Eam mctin Benzoate, Clodinafop- Propargyl, Chlorpyrifos, Fipronil Lambda Cyhalothrin, Bifenthrin, Nite npyram, Atrazine, Mesotrione, Chorfen apyr, Diafenturon, Triazophos, Carbo furan, Cartap HCl, Monomehypo	Physical Testing	Quantitative Determination of Emulsion	(AFC/QCL/STM-015) Verified Method based on CIPAC Hand Book, Volume F, MT 36, Pg. #108-114
Pesticides <i>(Technical/Finished/Formulated products)</i> Acetamiprid Imidacloprid Chlorpyrifos Lambda Cyhalothrin Chlorpyrifos Pyriproxyfen Pendimethalin Clodinafop-Propargyl Fipronil	Chemical Testing of Pesticides	Quantitative determination of Acetamiprid (Active ingredient)	(AFC/QCL/STM-004) Modified & validated Method based on CIPAC Handbook L, Pg # 5 (HPLC Technique)
		Quantitative determination of Imidacloprid (Active ingredient)	(AFC/QCL/STM-001) Modified & validated Method based on CIPAC Handbook K, Pg # 70 (HPLC Technique)
		Quantitative determination of Fipronil (Active	(AFC/QCL/STM-005) In House developed & validated Method (HPLC Technique)

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<p>Lufenuron Emamectin-Benzothate Bifenthrin Nitenpyram Chlorfenapyr Diafenturon Atrazine Mesotrione Cartap HCl Monomehypo Triazophos</p>	<p>Chemical Testing of Pesticides</p>	<p>ingredient)</p> <p>Quantitative determination of Chlorpyrifos (Active ingredient)</p>	<p>(AFC/QCL/STM-002) Modified & validated Method based on CIPAC Handbook IC, Pg # 2028 (HPLC Technique)</p>
		<p>Quantitative determination of Pyriproxyfen (Active ingredient)</p>	<p>(AFC/QCL/STM-003) In-House developed & validated method (HPLC Technique)</p>
		<p>Quantitative determination of Pendimethalin (Active ingredient)</p>	<p>(AFC/QCL/STM-041) Modified & validated Method based on CIPAC Handbook M, Pg # 148 (HPLC Technique)</p>
		<p>Quantitative determination of Lufenuron (Active ingredient)</p>	<p>(AFC/QCL/STM-008) In-House developed & validated method (HPLC Technique)</p>
		<p>Quantitative determination of Clodanfop Propargyl (Active ingredient)</p>	<p>(AFC/QCL/STM-007) In-House developed & validated method (HPLC Technique)</p>
		<p>Quantitative determination of Chlorfenapyr (Active ingredient)</p>	<p>(AFC/QCL/STM-027) In-House developed & validated method (HPLC Technique)</p>
		<p>Quantitative determination of Bifenthrin (Active ingredient)</p>	<p>(AFC/QCL/STM-023) In-House developed & validated method (HPLC Technique)</p>
		<p>Quantitative determination of Atrazine (Active ingredient)</p>	<p>(AFC/QCL/STM-025) In-House developed & validated method (HPLC Technique)</p>
		<p>Quantitative determination of</p>	<p>(AFC/QCL/STM-026) In-House developed & validated method</p>

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	Chemical Testing of Pesticides	Mesotrione (Active ingredient) Quantitative determination of Diafenthuron (Active ingredient)	(HPLC Technique) (AFC/QCL/STM-028) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Emamectin Benzoate (Active ingredient)	(AFC/QCL/STM-034) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Lambda Cyhalothrin (Active ingredient)	(AFC/QCL/STM-022) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Nitenpyram (Active ingredient)	(AFC/QCL/STM-024) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Triazophos (Active ingredient)	(AFC/QCL/STM-029) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Carbofuran (Active ingredient)	(AFC/QCL/STM-019) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Monomehypo (Active ingredient)	(AFC/QCL/STM-031) In-House developed & validated method (HPLC Technique)
		Quantitative determination of Cartap HCl (Active ingredient)	(AFC/QCL/STM-032) In-House developed & validated method (HPLC Technique)

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<p style="text-align: center;">Fertilizer <i>(Technical/Finished/Formulated products)</i></p> <p style="text-align: center;">Potash (K₂O) Phosphorous (P₂O₅) Nitrogen (Total, Ammonical, Nitric & Ureic) Humic Acid Boron (water soluble) Zinc (water soluble)</p>	<p>Chemical Testing of Pesticides</p>	<p>Quantitative determination of K₂O (Active ingredient)</p>	<p>(AFC/QCL/STM-013) Verified Method for fertilizers Food and Agriculture Materials Inspection Centre (FAMIC), JAPAN, 2013 (Flame Photometer Technique)</p>
		<p>Quantitative determination of Nitrogen (Ammonical, Ureic, Nitric (Active ingredient))</p>	<p>(AFC/QCL/STM-018) Verified method of AOAC 18th edition (Kjeldahl method)</p>
		<p>Quantitative determination of Zinc (Active ingredient)</p>	<p>(AFC/QCL/STM-021) Verified HACH KIT method USEPA 8009</p>
		<p>Quantitative determination of Boron (Active ingredient)</p>	<p>(AFC/QCL/STM-035) Official Methods of Analysis of AOAC International, 20th Edition, 2016. (Spectrophotometer method)</p>
		<p>Quantitative determination of Phosphorus (Active ingredient)</p>	<p>(AFC/QCL/STM-019) Verified method, Pakistan standard for Single Super Phosphate (2nd edition) PS: 67-1996. PSQCA. Karachi</p>
		<p>Quantitative determination of Humic Acid (Active ingredient)</p>	<p>(AFC/QCL/STM-020) Verified Method based on (T. L. Senn and A. R. Kingman, A Review of Humus and Humic Acid Research,) (Gravimetric Method)</p>

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