

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 110
---	-------------------------------	---

Accreditation No: LAB 110

Awarded to

**Suncrop (Pvt.) Ltd. Laboratory,
8-B, Industrial Estate,
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 **16-08-2016** 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 **15-08-2022**.

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

21-06-2022
Date

-Sd-
Director General



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 110

Testing Laboratory.

**Accreditation Scope of SUNCROP (Pvt.)Ltd. LABORATORY, 8-B
 Industrial Estate,
 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
Pesticide and Fertilizer (Finished / Formulated)	Physical Testing	Appearance (Finished/Formulated Product)	Standard colours / Visual
Pesticide Emulsifiable Concentrate (Finished / Formulated)		Emulsion (Finished/Formulated Product)	SUNCROP/SPL/WI-02 Standard method CIPAC Hand Book Volume F (2007) MT 36 / Water Bath
Pesticide Wettable Powder and water Dispersible granules (Finished / Formulated)		Suspensibility (Finished/Formulated Product)	SUNCROP/SPL/WI-04 CIPAC Hand Book Volume F (2007) MT 15 / Water Bath
Pesticide and Fertilizer (Finished / Formulated)		pH	SUNCROP/SPL/WI-03 Standard method CIPAC Hand Book Volume F (2007)/ MT 75 /pH Meter
Pesticide Suspension Concentrates (Finished / Formulated)		Viscosity (Finished/Formulated Product)	SUNCROP/SPL/WI-06 Standard method CIPAC Hand Book Volume L (2006) MT 192 / Viscometer
Pesticide and Fertilizer Finished and Formulated		Density (Finished/Formulated Product)	SUNCROP/SPL/WI-01 (based on Standard method CIPAC Hand Book Volume F (2007) MT



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 110

Pesticide Wettable Powder (Finished / Formulated)		Wettability	SUNCROP/SPL/WI-05 Standard method CIPAC Hand Book Volume F (2007) MT 53 / Stop watch
Acephate Formulations & Technical	Chemical Testing	Quantitative analysis of active Ingredient (Acephate)	SUNCROP/SPL/WI-07 NLA-PT-T-P-07-04, Based on Reference: Inhouse Validation/HPLC
Pyriproxifen Formulations & Technical		Quantitative analysis of active Ingredient (Pyriproxifen)	SUNCROP/SPL/WI-16 PT NLA-PT-T-P-07-04, Based on reference:715/EC/M,CIPAC Volume M,2009.(HPLC)
Fipronil Formulations & Technical		Quantitative analysis of active Ingredient (Fipronil)	SUNCROP/SPL/WI-13 Based on reference: 581/TC/M/ CIPAC Volume-J, 2000. HPLC
Atrazine Formulations & Technical		Quantitative analysis of active Ingredient (Atrazine)	SUNCROP/SPL/WI-09 NLA-PT-T-P-07-04, Based on Reference: Inhouse Validation/HPLC
Benfuracarb Formulations & Technical		Quantitative analysis of active Ingredient (Benfuracarb)	SUNCROP/SPL/WI-10 NLA-PT-T-P-07-04, Based on reference:501/TC/M,CIPAC Volume H,2008.(HPLC)
Cartap Hydrochloride Formulations & Technical		Quantitative analysis of active Ingredient (Cartap Hydrochloride)	SUNCROP/SPL/WI-11 Based on Reference: 387/TC/M/ CIPAC Volume D, 1988. Spectrophotometer
Sulphur Formulations & Technical		Quantitative analysis of active Ingredient (Sulphur)	SUNCROP/SPL/WI-17 Based on Reference: /TC/M/ CIPAC Volume E,(1993)/Gravimetric Method
Lambdacyhalothrin Formulations & Technical		Quantitative analysis of active Ingredient (Lambda Cyhalothrin)	SUNCROP/SPL/WI-14 NLA-PT-T-P-07-04 Based on Reference: Inhouse Validation/HPLC
Acetamiprid Formulations & Technical		Quantitative analysis of active Ingredient (Acetamiprid)	SUNCROP/SPL/WI-08 NLA-PT-T-P-06-06 Based on reference:649/TC/M,CIPAC Volume L,2006.(HPLC)



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 110

Mancozeb Formulation & Technical	Quantitative analysis of active Ingredient (Mancozeb)	SUNCROP/SPL/WI-15 Based on Reference:61/TC/M/ CIPAC Volume "E" Page 116 (1993)/Gravimetric method
Clothianidin Formulation & Technical	Quantitative analysis of active Ingredient (Clothianidin)	SUNCROP/SPL/WI-12 NLA-PT-T-P-07-04 Based onReference:738/TC/M/CIPAC Volume , N, (2012) HPLC
Lufenuron Formulation & Technical	Quantitative analysis of active Ingredient (Lufenuron)	SUNCROP/SPL/WI-18 NLA-PT-T-P-07-04, Based onReference:704/EC/M,CIPAC Volume M (2009). HPLC
Thiophenate Methyl Formulation & Technical	Quantitative analysis of active Ingredient (Thiophenate Methyl)	SUNCROP/SPL/WI-19 NLA-PT-T-P-06-06, Based onReference:262/TC/M,CIPAC Volume D (1988). HPLC
MCPA Formulation & Technical	Quantitative analysis of active Ingredient (MCPA)	SUNCROP/SPL/WI-21 PT-T-P-07-04 Based on Reference: 2/TC/M3 , CIPAC, Volume C
Bifenthrin Formulation & Technical	Quantitative analysis of active Ingredient (Bifenthrin)	SUNCROP/SPL/WI-22 NLA-PT-T-P-07-04, Based on Reference: Inhouse Validation HPLC
Carbofuron Formulation & Technical	Quantitative analysis of active Ingredient (Carbofuron)	SUNCROP/SPL/WI-23 PT-T-P-06-06 Based onReference:276/TC/M,CIPAC Volume D (1988). HPLC
Pendimethalin Formulation & Technical	Quantitative analysis of active Ingredient (Pendimethalin)	SUNCROP/SPL/WI-25 PT-T-P-07-04, Based onReference:357/TC/M,CIPAC Volume M (2009). HPLC



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 110

Dinotefuron Formulation & Technical	Chemical Testing	Quantitative analysis of active Ingredient (Dinotefuran)	SUNCROP/SPL/WI-26 PT-T-P-06-06 Based on Reference: 749/TC/M, CIPAC Volume L 2006. HPLC
Chlorfenapyr Formulation & Technical		Quantitative analysis of active Ingredient (Chlorfenapyr)	SUNCROP/SPL/WI-28 PT-T-P-07-04, Based on Reference: Inhouse Validation HPLC
Thiamethoxam Formulation & Technical		Quantitative analysis of active Ingredient (Thiamethoxam)	SUNCROP/SPL/WI-30 PT-T-P-07-04, Based on Reference: Inhouse Validation HPLC
Spirotetramate Formulation & Technical		Quantitative analysis of active Ingredient (Spirotetramate)	SUNCROP/SPL/WI-29 PT-T-P-07-04 Based on Reference: Inhouse Validation HPLC
Metolachlor Formulation & Technical		Quantitative analysis of active Ingredient (METOLACHLOR)	SUNCROP/SPL/WI-36 NLA-PT-T-P-07-04 (20), Based on Reference: Inhouse Verification HPLC
Mesosulfuron Methyl Formulation & Technical		Quantitative analysis of active Ingredient (MESOSULFURON METHYL)	SUNCROP/SPL/WI-31 NLA-PT-T-P-06-07 (20), Based on Reference: Inhouse Verification HPLC
Flonicamid Formulation & Technical		Quantitative analysis of active Ingredient (FLONICAMID)	SUNCROP/SPL/WI-20 NLA-PT-T-P-07-04 (20), Based on Reference: Inhouse Verification
Iodosulfuron Methyl Sodium Formulation & Technical		Quantitative analysis of active Ingredient (IODOSULPHURON METHYL SODIUM)	SUNCROP/SPL/WI-32 PT-T-P-06-07 (20), Based on Reference: Inhouse Verification
Imidacloprid Formulation & Technical	Quantitative analysis of active Ingredient (IMIDACLOPRID)	SUNCROP/SPL/WI-37 NLA-PT-T-P-07-04 (20), Based on Reference: 582/TC/M, CIPAC Volume H 2008. HPLC	
Metalaxyl Formulation & Technical		Quantitative analysis of active Ingredient (METALAXYL)	SUNCROP/SPL/WI-27 NLA-PT-T-P-07-04 (20), Based on Reference: 365/TC/M, CIPAC Volume E 1993. GC



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 110

<p>Nitrogen Fertilizer Formulation & Technical</p>		<p>Quantitative Determination of Active Ingredient. Ammonical Nitrogen</p> <p>Quantitative Determination of Active Ingredient. Nitrate Nitrogen</p> <p>Quantitative Determination of Active Ingredient. Total Nitrogen</p> <p>Quantitative Determination of Active Ingredient. Uric Nitrogen</p>	<p>SUNCROP/SPL/WI-33 Based on Reference: Official Methods of Analysis of AOAC International 21st Edition 2019, Volume I, Current through Revision 2019. Method No. 2.4.0.5 (AOAC Official Method 978.02), Fertilizer Chapter 2 Page 14-15 (Kjeldhal,s distillation apparatus)</p>
<p>Phosphorous Fertilizer Formulation & Technical</p>		<p>Quantitative analysis of active Ingredient citrate soluble and Total Phosphorous (P₂O₅)</p>	<p>SUNCROP/SPL/WI-34 Based on: Pakistan Standard for Single Super Phosphate (2nd edition) PS: 67-1996 PSQCA.Karachi. (Titrimetric Method)</p>
<p>Potassium Fertilizer Formulation & Technica</p>		<p>Quantitative analysis of active Ingredient Water soluble Potassium (K₂O)</p>	<p>SUNCROP/SPL/WI-35 Richards.L.A 1954. Diagonosis and improvement of saline and alkali soil.USDA, agric, Handbook 60, Washington.D.C. ii) standard operating Manual of Flame photometer.</p>
<p>Humic Acid Formulation & Technical</p>		<p>Quantitative analysis of active Ingredient HUMIC ACID</p>	<p>SUNCROP/SPL/WI-38 John Husler, Uni of new Mexico, Dept. of geology, Albuquerque, New Maxico. A.L, page, Metod of soil analysis, Part2, American Society of Agronomy, Inc, Madison, Wisconsin, 1982(Gravimetric Method)</p>
<p>Zinc Fertilizer Formulation & Technical</p>		<p>Quantitative analysis of active Ingredient ZINC (Water Soluble and Acid soluble)</p>	<p>SUNCROP/SPL/WI-39 Instrument Manufacturing Method HACH</p>
<p>Iron Fertilizer Formulation & Technical</p>		<p>Quantitative analysis of active Ingredient IRON (Water Soluble and Acid soluble)</p>	<p>SUNCROP/SPL/WI-40 Instrument Manufacturing Method HACH</p>
<p>Manganese Fertilizer Formulation & Technical</p>		<p>Quantitative analysis of active Ingredient MANGANESE (Water Soluble and Acid soluble)</p>	<p>SUNCROP/SPL/WI-41 Instrument Manufacturing Method HACH</p>



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 110

Paraquate Formulation & Technical	Quantitative analysis of active Ingredient (Paraquat)	SUNCROP/SPL/WI-24 Based on: 56/ SL/ M,CIPAC Volume M 1993, Page# 166 - 168. Spectrophotometer Technique
Mesotrione Formulation & Technical	Quantitative analysis of active Ingredient (Mesotrione)	SUNCROP/SPL/WI-42 NLA-PT-T-P-23-02 , Based on Reference: Inhouse Verification HPLC
Difenconazole Formulation & Technical	Quantitative analysis of active Ingredient (Difenconazole)	SUNCROP/SPL/WI-43 NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC
Azoxystrobin Formulation & Technical	Quantitative analysis of active Ingredient (Azoxystrobin)	SUNCROP/SPL/WI-44 NLA-PT-T-P-06 - 08, Based on Reference: Inhouse Verification HPLC
Chlorpyriphos Formulation & Technical	Quantitative analysis of active Ingredient (Chlorpyriphos)	SUNCROP/SPL/WI-45 NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC
Diafenthiuron Formulation & Technical	Quantitative analysis of active Ingredient (Diafenthiuron)	SUNCROP/SPL/WI-46 NLA-PT-T-P-07-04 , Based on Reference: Inhouse Verification HPLC

Toxicology Studies	Physical Testing	Acute Dermal Toxicity Test	SUNCROP/SPL/WI-43 OECD(2017) Test no 402: Acute Dermal Toxicity, OECD Publishing, Paris.
Toxicology Studies	Physical Testing	Acute Oral Toxicity Test	SUNCROP/SPL/WI-42 OECD(2001) Test no 423: Acute Oral Toxicity, OECD Publishing, Paris.

21-06-2022
Date

-Sd-
Director