

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 110</b>
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## **Accreditation No: LAB 110**

**Awarded to**

**Suncrop Pesticide (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**

**10-06-2021**  
Date

**xxSdxx**  
Director General



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**Testing Laboratory.**

**Accreditation Scope of SUNCROP PESTICIDES LABORATORY, 8-B Industrial Estate,  
Multan, Pakistan.**

**Permanent laboratory premises**

<b>Materials/Products tested</b>	<b>Testing field (e.g. environmental testing or mechanical testing)</b>	<b>Types of test/ Properties measured</b>	<b>Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference</b>
<b>Pesticide and Fertilizer</b> (Finished / Formulated)	Physical Testing	Appearance (Finished/Formulated Product)	Standard colours / Visual
<b>Pesticide Emulsifiable Concentrate</b> (Finished / Formulated)		Emulsion (Finished/Formulated Product)	<b>SUNCROP/SPL/WI-02</b> Standard method CIPAC Hand Book Volume F (2007) MT 36 / Water Bath
<b>Pesticide</b> Wettable Powder and water Dispersible granules (Finished / Formulated)		Suspensibility (Finished/Formulated Product)	<b>SUNCROP/SPL/WI-04</b> CIPAC Hand Book Volume F (2007) MT 15 / Water Bath
<b>Pesticide and Fertilizer</b> (Finished / Formulated)		pH	<b>SUNCROP/SPL/WI-03</b> Standard method CIPAC Hand Book Volume F (2007)/ MT 75 / pH Meter
<b>Pesticide</b> Suspension Concentrates (Finished / Formulated)		Viscosity (Finished/Formulated Product)	<b>SUNCROP/SPL/WI-06</b> Standard method CIPAC Hand Book Volume L (2006) MT 192 / Viscometer
<b>Pesticide and Fertilizer</b> Finished and Formulated		Density (Finished/Formulated Product)	<b>SUNCROP/SPL/WI-01</b> (based on Standard method CIPAC Hand Book Volume F (2007) MT 3) Hydrometer

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

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

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

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<b>Metalaxyl</b> Formulation & Technical		Quantitative analysis of active Ingredient (METALAXYL)	<b>SUNCROP/SPL/WI-27</b> NLA-PT-T-P-07-04 (20), Based on Reference:365/TC/M,CIPAC Volume E 1993. GC
<b>Nitrogen</b> <b>Fertilizer</b> Formulation & Technical	Chemical Testing	Quantitative Determination of Active Ingredient. <b>Ammonical Nitrogen</b>	<b>SUNCROP/SPL/WI-33</b> Based on Reference: Official Methods of Analysis of AOAC International 21 <sup>st</sup> 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)
Quantitative Determination of Active Ingredient. <b>Nitrate Nitrogen</b>			
Quantitative Determination of Active Ingredient. <b>Total Nitrogen</b>			
Quantitative Determination of Active Ingredient. <b>Uric Nitrogen</b>			
<b>Phosphorous</b> <b>Fertilizer</b> Formulation & Technical		Quantitative analysis of active Ingredient citrate soluble and Total Phosphorous (P <sub>2</sub> O <sub>5</sub> )	<b>SUNCROP/SPL/WI-34</b> Vogel's text book of quantitative chemicals analysis 6 <sup>th</sup> edition, Pearson education, India.
<b>Potassium</b> <b>Fertilizer</b> Formulation & Technical		Quantitative analysis of active Ingredient Water soluble Potassium (K <sub>2</sub> O)	<b>SUNCROP/SPL/WI-35</b> 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.
<b>Humic Acid</b> Formulation & Technical		Quantitative analysis of active Ingredient HUMIC ACID	<b>SUNCROP/SPL/WI-38</b> 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)
<b>Zinc Fertilizer</b> Formulation & Technical		Quantitative analysis of active Ingredient ZINC (Water Soluble and Acid soluble)	<b>SUNCROP/SPL/WI-39</b> Instrument Manufacturing Method HACH

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<b>Iron Fertilizer Formulation &amp; Technical</b>		Quantitative analysis of active Ingredient <b>IRON</b> (Water Soluble and Acid soluble)	<b>SUNCROP/SPL/WI-40</b> Instrument Manufacturing Method HACH
<b>Manganese Fertilizer Formulation &amp; Technical</b>		Quantitative analysis of active Ingredient <b>MANGANESE</b> (Water Soluble and Acid soluble)	<b>SUNCROP/SPL/WI-41</b> Instrument Manufacturing Method HACH

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