



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **ADVANCED ANALYTICAL LABS**

730 BENNETT VALLEY ROAD  
SANTA ROSA, CALIFORNIA 95404, U.S.A.

### **Testing Laboratory TL-1151**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date November 8, 2023



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## ADVANCED ANALYTICAL LABS

[www.advancedalsr.com](http://www.advancedalsr.com)

**Contact Name** Dr. Satish Annigeri

**Contact Phone** +1 818 359-7910

*Accredited to ISO/IEC 17025:2017*

*Effective Date November 8, 2023*

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological	Cannabis, Cannabis Products, Industrial Hemp and Industrial Hemp Products	Shiga-toxin producing Escherichia coli (STEC) Salmonella spp. Pathogenic Aspergillus species A. fumigatus, A. flavus, A. niger, and A. terreus	<b>SOP-AAL-MIC-004</b> Standard Operating Procedure for Preparation and Incubation of Samples for DNA Extraction  <b>SOP-AAL-MIC-005</b> Standard Operating Procedure for DNA Extraction of Samples for Analysis by Real-Time PCR  <b>SOP-AAL-MIC-006</b> Standard Operating Procedure for Analysis of Samples for Microbial Contaminants By Real-Time PCR
		<b>Chemical</b> Cannabis, Cannabis Products, Industrial Hemp and Industrial Hemp Products  <b>Cannabinoids:</b> Δ8-THC Δ9-THC THCA THCV THCVA CBD CBDA CBC CBCA CBDV CBDVA CBG CBGA CBN  <b>Terpenoids:</b> alpha-Pinene Camphene beta-Myrcene beta-Pinene delta-3-Carene alpha- Terpinene alpha-Ocimene D-Limonene	<b>SOP-AAL-CHM-016</b> Standard Operating Procedure for Preparation of Samples for Cannabinoid Potency and Terpene Analysis  <b>SOP-AAL-CHM-004</b> Standard Operating Procedure for Sample Analysis of Cannabinoid Potency by HPLC-PDA  <b>SOP-AAL-CHM-016</b> Standard Operating Procedure for Preparation of Samples for Cannabinoid Potency and Terpene Analysis  <b>SOP-AAL-CHM-013</b> SOP Sample Analysis for Terpenes by HS-GCMS

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<b>Chemical</b> (cont'd.)	Cannabis, Cannabis Products, Industrial Hemp and Industrial Hemp Products (cont'd.)	p-Cymene beta-Ocimene Eucalyptol gamma-Terpinene Terpinolene Linalool Isopulegol Geraniol beta-Caryophyllene alpha-Humulene Cis-Nerolidol Trans-Nerolidol Guaiol alpha-Bisabolol	<b>SOP-AAL-CHM-016</b> Standard Operating Procedure for Preparation of Samples for Cannabinoid Potency and Terpene Analysis  <b>SOP-AAL-CHM-013</b> SOP Sample Analysis for Terpenes by HS-GCMS (cont'd.)
		<b>Residual Solvents:</b> 1,2-Dichloroethane Benzene Chloroform Ethylene oxide Methylene chloride Trichloroethylene Acetone Acetonitrile Butane Ethanol Ethyl acetate Ethyl ether Heptane Hexane Isopropyl alcohol Methanol Pentane Propane Toluene Total xylenes (ortho-, meta-, para-)	<b>SOP-AAL-CHM-008</b> Standard Operating Procedure for Preparation of Samples for Residual Solvent Analysis  <b>SOP-AAL-CHM-009</b> Standard Operating Procedure for Analysis of Residual Solvents by GC-MS
		<b>Pesticides:</b> Aldicarb, Carbofuran, Chlorpyrifos, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, DDVP (Dichlorvos), Dimethoate, Ethoprop(hos), Etofenprox, Fenoxycarb,	<b>SOP-AAL-CHM-005</b> SOP for the Preparation of Samples for Pesticides and Mycotoxin Residue Analysis  <b>SOP-AAL-CHM-006</b> Sample Analysis of Residual Pesticides and Mycotoxins

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<b>Chemical</b> (cont'd.)	Cannabis, Cannabis Products, Industrial Hemp and Industrial Hemp Products (cont'd.)	Fipronil, Imazalil, Methiocarb, Mevinphos, Paclobutrazol, Propoxur, Spiroxamine, Thiacloprid, Abamectin, Acephate, Acequinocyl, Acetamiprid, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Chlorantraniliprole, Clofentezine, Diazinon, Dimethomorph, Etoxazole, Fenhexamid, Fenpyroximate, Flonicamid, Fludioxonil, Hexythiazox, Imidacloprid, Kresoxim-methyl, Malathion, Metalaxyl, Methomyl, Myclobutanil, Naled, Oxamyl, Permethrin, Phosmet, Piperonyl butoxide, Prallethrin, Propiconazole, Pyrethrins, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Tebuconazole, Thiamethoxam, Trifloxystrobin	<b>SOP-AAL-CHM-005</b> SOP for the Preparation of Samples for Pesticides and Mycotoxin Residue Analysis  <b>SOP-AAL-CHM-006</b> Sample Analysis of Residual Pesticides and Mycotoxins (cont'd.)

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Chemical (cont'd.)	Cannabis, Cannabis Products, Industrial Hemp and Industrial Hemp Products (cont'd.)	<b>Pesticides:</b> Chlordane Chlorfenapyr Captan Pentachloronitrobenzene (Quintozene) Methyl parathion	<b>SOP-AAL-CHM-005</b> SOP for the Preparation of Samples for Pesticides and Mycotoxin Residue Analysis  <b>SOP-AAL-CHM-007</b> SOP Sample Analysis for Pesticides by GCMS-MS
		<b>Mycotoxin:</b> Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A	<b>SOP-AAL-CHM-005</b> SOP for the Preparation of Samples for Pesticides and Mycotoxin Residue Analysis  <b>SOP-AAL-CHM-006</b> Sample Analysis of Residual Pesticides and Mycotoxins
		Moisture Percentage, Water Activity (Aw) Water	<b>SOP-AAL-CHM-001</b> Standard Operating Procedure for Measuring Moisture Content  <b>SOP-AAL-CHM-002</b> Standard Operating Procedure for Measuring Water Activity
		<b>Heavy Metals:</b> Cadmium Arsenic Mercury Lead	<b>SOP-AAL-CHM-010</b> Standard Operating Procedure for Preparation of Samples for Heavy Metals by Microwave Digestion  <b>SOP-AAL-CHM-011</b> Standard Operating Procedure for Analysis of Heavy Metals by ICP-MS
Non-destructive	Cannabis, Cannabis Products, Industrial Hemp and Industrial Hemp Products	Filth and Foreign Matter	<b>SOP-AAL-GEN-004</b> Standard Operating Procedure for Filth and Foreign Material Inspection
		Sample Homogenization	<b>SOP-AAL-GEN-005</b> Standard Operating Procedure for Homogenization of Representative Samples