

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

**Legal Name of Accredited Laboratory:**    **Quality Analytical Services Ltd**

Location Name or Operating as (if applicable):    QAS Ltd.

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<b>SCC File Number:</b>	151306
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Chemical/Physical Forensic
<b>Program Specialty Area:</b>	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET) Forensic
<b>Initial Accreditation:</b>	2022-12-22
<b>Most Recent Accreditation:</b>	2023-08-03
<b>Accreditation Valid to:</b>	2026-12-22

**ANIMAL AND PLANTS (AGRICULTURE)**

**Foods and Edible Products (Human and Animal Consumption):**

<p>QASM025</p>	<p>Determination of cannabinoids in cannabis products by HPLC-UV          EUROPEAN PHARMACOPOEIA 2.2.29, USP 621, and USP 736          Cannabidiol (CBD)          Cannabidiolic acid (CBDA)          Cannabinol (CBN)          Cannabinolic Acid (CBNA)          Tetrahydrocannabinol (THC)          Tetrahydrocannabinolic acid (THCA)</p>
<p>QASM028</p>	<p>Determination of pesticides and Aflatoxins in cannabis and cannabis products by LC/MS/MS, and GC/MS/MS          EUROPEAN PHARMACOPOEIA 2.8.13, USP 561, and EUROPEAN PHARMACOPOEIA 2.8.18          LC/MS/MS:          Abamectin          Acephate          Acequinocyl          Acetamiprid          Aldicarb          Allethrin          Azadirachtin          Azoxystrobin          Benzovindiflupyr          Bifenazate          Bifenthrin          Boscalid          Buprofezin          Carbaryl          Carbofuran          Chlorantraniliprole          Chlorpyrifos (Dursban)          Clofentezine          Clothianidin          Coumaphos          Cyantraniliprole          Cyfluthrin          Cypermethrin          Cyprodinil          Daminozide          Deltamethrin          Diazinon          Dichlorvos (DDVP)          Dimethoate          Dimethomorph          Dinotefuran          Dodemorph          Endosulfan sulfate (Endosulphan sulphate)          Ethoprophos</p>

	<p>           Etofenprox            Etoxazole            Fenoxycarb            Fenpyroximate            Fensulfothion            Fenthion            Fenvalerate            Fipronil            Flonicamid            Fludioxonil            Fluopyram            Hexythiazox            Imazalil            Imidacloprid            Iprodione            Kinoprene (Enstar)            Kresoxim-methyl            Malathion            Metalaxyl            Methiocarb            Methomyl            Methoprene            Mevinphos (Phosdrin)            MGK-264            Myclobutanil            Naled (Dibrom)            Novaluron            Oxamyl            Paclobutrazol            Permethrin            Phenothrin            Phosmet (Imidan)            Piperonyl butoxide            Pirimicarb            Prallethrin            Propiconazole            Propoxur (Baygon)            Pyraclostrobin            Pyrethrins            Pyridaben            Resmethrin            Spinetoram            Spinosad            Spirodiclofen            Spiromesifen            Spirotetramat            Spiroxamine            Tebuconazole            Tebufenozide            Teflubenzuron            Tetrachlorvinphos            Tetramethrin         </p>
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	<p>Thiacloprid          Thiamethoxam          Thiophanate-methyl          Trifloxystrobin          Aflatoxin B1          Aflatoxin B2          Aflatoxin G1          Aflatoxin G2</p> <p>GC/MS/MS:          Chlorfenapyr          Endosulfan I (Endosulphan I, a-Endosulfan)          Endosulfan II (b-Endosulfan)          Etridiazole          Methyl parathion (Parathion-methyl)          Pentachloronitrobenzene (Quintozene)</p>
QASM011	<p>Determination of heavy metals in Cannabis by ICP/MS          EUROPEAN PHARMACOPOEIA 2.4.27 and USP 233          Arsenic          Cadmium          Lead          Mercury</p>
QASM027	<p>Determination of percentage moisture in Cannabis by gravimetric analysis.          EUROPEAN PHARMACOPOEIA 2.2.32 and USP 731</p>
QASM030	<p>Determination of residual solvents in cannabis products by GC/MS-Headspace.          EUROPEAN PHARMACOPOEIA 5.4 and Modified USP 467          1-Pentanol          1-Propanol (Propanol)          2-Butanol          2-Butanone (Methyl ethyl ketone, MEK)          2-Propanol (Isopropyl alcohol)          3-Methyl-1-butanol          Acetic acid          Acetone (2-Propanone)          Anisole          Butane          Butyl acetate          Dimethyl sulfoxide          Ethanol          Ethyl acetate          Ethyl ether          Ethyl formate          Formic acid          Heptane          Isobutanol (2-Methyl-1-propanol)          Isobutyl acetate          Isopropyl acetate          Methyl acetate          Methyl tert-butyl ether (MTBE)</p>

	<p>Pentane  Propyl acetate  Triethylamine</p>
QASM024	<p>Determination of terpenes in cannabis and cannabis products by GC/MS  USP 736, and Modified USP 621  (-)-alpha-Bisabolol  (-)-Isopulegol  3-Carene  alpha-Cedrene  alpha-Humulene  alpha-Pinene  alpha-Terpinene  beta-Myrcene  beta-Pinene  Camphene  Camphor  Caryophyllene oxide  Cedrol  cis-Nerolidol  Eucalyptol  Fenchol  Fenchone  gamma-Terpinene  Geraniol  Geranyl acetate  Guaiol  Isoborneol  Limonene  Linalool  Menthol  Nerol  Ocimene  Phellandrene  Pulegone  Sabinene  Sabinene hydrate  Terpineol  Terpinolene  Trans-Caryophyllene  trans-Nerolidol  Valencene</p>

QASM002	Determination of Mycotoxins in Animal Feed and Grains by LC/MS/MS 15-Acetyldeoxynivalenol 3-Acetyldeoxynivalenol Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 alpha-Zearalenol beta-Zearalenol Cyclopiazonic Acid Deoxynivalenol Diacetoxyscirpenol Fumonisin B1 Fumonisin B2 Fumonisin B3 Fusarenon X HT-2 Toxin Neosolaniol Nivalenol Ochratoxin A Sterigmatocystin T-2 Toxin Zearalenone
QASM005	Determination of Glyphosate, AMPA and Glufosinate in Animal Feeds and Grains by LC/MS/MS Aminomethylphosphonic acid (AMPA) Glyphosate Glufosinate
QASM003	Determination of Ergot Alkaloids in Animal Feed and Grains by LC/MS/MS Ergocornine Ergocorninine Ergocristine Ergocristinine Ergocryptine Ergocryptinine Ergometrine Ergometrinine Ergosine Ergosinine Ergotamine Ergotaminine

**ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

**Water (Drinking/Ground/Surface/Wastewater):**

QASM001	Determination of dissolved metals in waters by ICP/MS
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	Modified EPA 200.8 Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Sodium Strontium Thallium Tin Titanium Uranium Vanadium Zinc
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**FORENSICS**

**Biochemical Testing**

QASM006*	Determination of per se drugs in blood by LC/MS/MS 6-Monoacetylmorphine Cocaine Gamma hydroxybutyrate (GHB) Ketamine Lysergic acid diethylamide (LSD) Methamphetamine Phencyclidine (PCP) Psilocin Psilocybin Tetrahydrocannabinol (THC)
QASM004*	Determination of Ethanol content in blood by GC/MS-Headspace
QASM007*	Determination of unknown drugs in blood and urine by LC/MS/MS, GC/MS-Headspace Drug Screening

**Microbiological Testing**

QASM036	Determination of microbiological parameters in cannabis and cannabis products by plating Total Aerobic Count Total Yeast & Mold Count Bile Tolerant Gram Negative Count Bile Tolerant Gram Negative presence/absence Escherichia coli count Escherichia coli presence/absence Salmonella spp presence/absence Staphylococcus aureus presence/absence Pseudomonas aeruginosa presence/absence Listeria monocytogenes presence/absence
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**Biological Testing**

QASM034	Determination of Hop Latent Viroid in Cannabis Plants Hop Latent Viroid (HLV)
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**Other (specify):**

Number of Scope Listings: 15

**Notes:**

\* These test methods can be performed on-site as per RG- Forensic Laboratories \_v2\_2021-06-20

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at [www.scc.ca](http://www.scc.ca).

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 Vice-President, Accreditation Services  
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