



SCOPE OF ACCREDITATION TO ISO 17034:2016

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REFERENCE MATERIALS PRODUCER

Valid To: March 31, 2023

Certificate Number: 6132.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this Reference Material Producer for the production of the following certified reference materials:

Certified Reference Material/ Matrix or Artifact	Properties Characterized	Approach Used to Assign Property Values
ONE Pesticide ⁴²⁰ ™ Kit – Pesticides/Mycotoxins in Acetonitrile Containing 0.1 % Formic Acid: Abamectin Acephate Acequinocyl Acetamiprid Aldicarb alpha-Chlordane Azoxystrobin Bifenazate Bifenthrin Boscalid Captan Carbaryl Carbofuran Chlorantraniliprole Chlorfenapyr Chlormequat Chloride Chlorpyrifos (Dursban) Clofentezine Coumaphos Cyfluthrin Cypermethrin Daminozide (Alar) Diazinon	Concentration of Pesticide/Mycotoxin: <u>For ONE Pesticide⁴²⁰™ Reagent Kit</u> <u>Calibrator Solutions*:</u> 1 ng/mL 5 ng/mL 10 ng/mL 25 ng/mL 50 ng/mL 100 ng/mL 150 ng/mL 250 ng/mL 10 µg/mL QC Solutions: 75 ng/mL 175 ng/mL * Mycotoxins at 1/10 the concentration of pesticides <u>For QS-Works™ ONE Pesticide⁴²⁰™ Reagent</u> <u>Kit:</u> Stock Calibrator, QS-CAL-01 1 µg/mL Pesticides & 0.1 µg/mL Mycotoxins ICV Stock Calibrator, QS-ICV-01 1 µg/mL Pesticides & 0.1 µg/mL Mycotoxins Stock Calibrator 10 ppm, QS-LCS-01 10 µg/mL Pesticides & 1 µg/mL Mycotoxins	Determination through volumetric measurements, verified using LC- MS/MS method

Certified Reference Material/Matrix or Artifact	Properties Characterized	Approach Used to Assign Property Values
<p>ONE Pesticide⁴²⁰™ Kit – (cont)</p> <p>Pesticides/Mycotoxins in Acetonitrile Containing 0.1 % Formic Acid:</p> <p>Dichlorvos Dimethoate Dimethomorph Ethoprophos (Ethoprop) Etofenprox Etoxazole Fenhexamid Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil gamma-Chlordane Hexythiazox Imazalil Imidacloprid Japanese Aflatoxin mixture Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Kresoxim-methyl Malathion Metalaxyl Methiocarb Methomyl Mevinphos MGK-264 Myclobutanil Naled Ochratoxin A Oxamyl Paclobutrazol Parathion-methyl Pendimethalin Pentachloronitrobenzene Permethrin Phosmet (Imidan) Piperonyl butoxide Prallethrin Propiconazole (Tilt) Propoxur (Baygon)</p>	<p>Concentration of Pesticide/Mycotoxin:</p> <p><u>For ONE Pesticide⁴²⁰™ Reagent Kit Calibrator Solutions*:</u></p> <p>1 ng/mL 5 ng/mL 10 ng/mL 25 ng/mL 50 ng/mL 100 ng/mL 150 ng/mL 250 ng/mL 10 µg/mL</p> <p>QC Solutions: 75 ng/mL 175 ng/mL</p> <p>* Mycotoxins at 1/10 the concentration of pesticides</p> <p><u>For QS-Works™ ONE Pesticide⁴²⁰™ Reagent Kit:</u></p> <p>Stock Calibrator, QS-CAL-01 1 µg/mL Pesticides & 0.1 µg/mL Mycotoxins ICV Stock Calibrator, QS-ICV-01 1 µg/mL Pesticides & 0.1 µg/mL Mycotoxins Stock Calibrator 10 ppm, QS-LCS-01 10 µg/mL Pesticides & 1 µg/mL Mycotoxins</p>	<p>Determination through volumetric measurements, verified using LC-MS/MS method</p>

Certified Reference Material/Matrix or Artifact	Properties Characterized	Approach Used to Assign Property Values
<p>ONE Pesticide^{420™} Kit – (cont)</p> <p>Pesticides/Mycotoxins in Acetonitrile Containing 0.1 % Formic Acid:</p> <p>Pyrethrins</p> <p>Pyrethrin I (Pyrethrin)</p> <p>Pyrethrin II (Pyrethrin)</p> <p>Cinerin I (Pyrethrin)</p> <p>Cinerin II (Pyrethrin)</p> <p>Jasmolin I (Pyrethrin)</p> <p>Jasmolin II (Pyrethrin)</p> <p>Pyridaben</p> <p>Spinetoram</p> <p>Spinosad</p> <p>Spinosyn A</p> <p>Spinosyn D</p> <p>Spiromesifen</p> <p>Spirotetramat</p> <p>Spiroxamine</p> <p>Tebuconazol</p> <p>Thiacloprid</p> <p>Thiamethoxam</p> <p>Trifloxystrobin</p>	<p>Concentration of Pesticide/Mycotoxin:</p> <p><u>For ONE Pesticide^{420™} Reagent Kit Calibrator Solutions*:</u></p> <p>1 ng/mL</p> <p>5 ng/mL</p> <p>10 ng/mL</p> <p>25 ng/mL</p> <p>50 ng/mL</p> <p>100 ng/mL</p> <p>150 ng/mL</p> <p>250 ng/mL</p> <p>10 µg/mL</p> <p>QC Solutions:</p> <p>75 ng/mL</p> <p>175 ng/mL</p> <p>* Mycotoxins at 1/10 the concentration of pesticides</p> <p><u>For QS-Works™ ONE Pesticide^{420™} Reagent Kit:</u></p> <p>Stock Calibrator, QS-CAL-01</p> <p>1 µg/mL Pesticides & 0.1 µg/mL Mycotoxins</p> <p>ICV Stock Calibrator, QS-ICV-01</p> <p>1 µg/mL Pesticides & 0.1 µg/mL Mycotoxins</p> <p>Stock Calibrator 10 ppm, QS-LCS-01</p> <p>10 µg/mL Pesticides & 1 µg/mL Mycotoxins</p>	<p>Determination through volumetric measurements, verified using LC-MS/MS method</p>



Accredited Reference Material Producer

A2LA has accredited

PERKINELMER, INC.

Boston, MA

This accreditation covers the specific materials listed on the agreed upon Scope of Accreditation.

This producer meets the requirements of ISO 17034:2016 *General Requirements for the Competence of Reference Material Producers*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 17th day of February 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6132.01
Valid to March 31, 2023