

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

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Certified Reference Material/Matrix or Artifact	Properties Characterized	Approach Used to Assign Property Values
ONE Pesticide ^{420TM} Kit –	Concentration of Pesticide/Mycotoxin:	Determination through
(cont)		volumetric measurements,
	For ONE Pesticide ⁴²⁰ TM Reagent Kit	verified using LC-MS/MS
Pesticides/Mycotoxins in	Calibrator Solutions*:	method
Acetonitrile Containing 0.1	1 ng/mL	
% Formic Acid:	5 ng/mL	
	10 ng/mL	
Dichlorvos	25 ng/mL	
Dimethoate	50 ng/mL	
Dimethomorph	100 ng/mL	
Ethoprophos (Ethoprop)	150 ng/mL	
Etofenprox	250 ng/mL	
Etoxazole	10 µg/mL	
Fenhexamid		
Fenoxycarb	QC Solutions:	
Fenpyroximate	75 ng/mL	
Fipronil	175 ng/mL	
Flonicamid	* Mycotoxins at 1/10 the concentration	
Fludioxonil	of pesticides	
gamma-Chlordane		
Hexythiazox	For QS-Works TM ONE Pesticide ⁴²⁰ TM	
Imazalil	Reagent Kit:	
Imidacloprid		
Japanese Aflatoxin mixture	Stock Calibrator, QS-CAL-01	
Aflatoxin B1	1 μg/mL Pesticides & 0.1 μg/mL	
Aflatoxin B2	Mycotoxins	
Aflatoxin G1	ICV Stock Calibrator, QS-ICV-01	
Aflatoxin G2	1 μg/mL Pesticides & 0.1 μg/mL	
Kresoxim-methyl	Mycotoxins	
Malathion	Stock Calibrator 10 ppm, QS-LCS-01	
Metalaxyl	10 µg/mL Pesticides & 1 µg/mL	
Methiocarb	Mycotoxins	
Methomyl		
Mevinphos		
MGK-264		
Myclobutanil		
Naled		
Ochratoxin A		
Oxamyl		
Paclobutrazol		
Parathion-methyl		
Pendimethalin		
Pentachloronitrobenzene		
Permethrin		
Phosmet (Imidan)		
Piperonyl butoxide		
Prallethrin		
Propiconazole (Tilt)		
Propoxur (Baygon)		

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Certified Reference Material/Matrix or Artifact	Properties Characterized	Approach Used to Assign Property Values
ONE Pesticide ^{420TM} Kit – (cont) Pesticides/Mycotoxins in Acetonitrile Containing 0.1 % Formic Acid: Pyrethrins Pyrethrin I (Pyrethrin) Pyrethrin II (Pyrethrin) Cinerin I (Pyrethrin) Jasmolin I (Pyrethrin) Jasmolin II (Pyrethrin) Pyridaben Spinetoram Spinosad Spinosyn A Spinosyn D Spiromesifen Spirotetramat Spiroxamine Tebuconazol Thiacloprid Thiamethoxam Trifloxystrobin	Concentration of Pesticide/Mycotoxin: For ONE Pesticide ^{420™} Reagent Kit Calibrator Solutions*: 1 ng/mL 5 ng/mL 10 ng/mL 25 ng/mL 100 ng/mL 100 ng/mL 150 ng/mL 100 ng/mL 100 ng/mL 100 ng/mL 100 ng/mL 100 ng/mL 250 ng/mL 10 µg/mL QC Solutions: 75 ng/mL 175 ng/mL * Mycotoxins at 1/10 the concentration of pesticides For QS-Works TM ONE Pesticide ⁴²⁰ TM Reagent Kit: 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

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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.

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

For reference materials to which this accreditation applies, please refer to the reference material producer's Scope of Accreditation.