



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EUROFINS BIODIAGNOSTICS, INC.
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BIOLOGICAL

Valid To: July 31, 2023

Certificate Number: 4257.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on seed and plant materials:

<u>Technology/Method</u>	<u>Specification/Standard Method(s)</u>	<u>In-House Procedure(s)</u>
Bacteriology	Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + PCR and/or pathogenicity assay/So 2.1 Selective Media/PCR Assay (ISHI Version 4.3, 2015)	<i>Clavibacter michiganensis subsp. michiganensis</i> - EBDI 13000 Method for the Detection of <i>Clavibacter michiganensis subsp. michiganensis</i> on Tomato seed (version 4.3.1) and EBDI 13001 Detection of <i>Clavibacter michiganensis subsp. michiganensis</i> using TaqMan® Q-PCR
Bacteriology	Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + pathogenicity assay / "International Rules for Seed Testing Annexe to Chapter 7: Seed Health Testing Methods"	<i>Pseudomonas syringae pv. phaseolicola</i> (syn: <i>P. savastanoi pv phaseolicola</i>) - Be 1.2 Dilution and Plating followed by Pathogenicity Test (ISTA method 7-023: ver 1.3)
Bacteriology	Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + pathogenicity assay or PCR assay/ "International Rules for Seed Testing Annexe to Chapter 7: Seed Health Testing Methods"	<i>Xanthomonas axonopodis pv phaseoli</i> - Be 3.1 ISTA Selective Media Assay 7-021: ver 3.1
Bacteriology	Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + pathogenicity assay or PCR assay/ "International Rules for Seed Testing Annexe to Chapter 7: Seed Health Testing Methods"	<i>Xanthomonas campestris pv campestris</i> - Br 1.1 ISTA Method 7-019a: ver 5.1, 7-019b: ver 1.1

<u>Technology/Method</u>	<u>Specification/Standard Method(s)</u>	<u>In-House Procedure(s)</u>
Bacteriology	Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + pathogenicity assay/ ISHI Method (pepper)	<i>Xanthomonas campestris pv vesicatoria</i> - So 1.1 ISHI Method Version 5 (Pepper)
BFB	Pathogen detection using Growout + symptomatology /Cb 1.1 Seedling Grow-out	<i>Acidovorax citrulli</i> (Ac) - EBDI 14000 Detection of <i>Acidovorax citrulli</i> (Ac) in Cucurbit Seeds by Grow-out Symptomatology
BFB	Pathogen detection using seed wash + PCR	<i>Acidovorax citrulli</i> (Ac) - EBDI 14001 <i>Acidovorax citrulli</i> (Ac) Seedwash PCR Method with Qiagen kit
Mycology	Microscopy	<i>Didymella bryoniae</i> - EBDI 15001 Seed-borne pathogen detection for <i>Didymella bryoniae</i> (anamorph <i>Phoma cucurbitacearum</i>)
Mycology	Microscopy	<i>Phoma lingam</i> - Br 2.1 Freeze Blotter Section of (ISTA 7-004: Detection of <i>Leptosphaeria maculans</i> and <i>Plenodomus biglobosus</i> on Brassica seed)
Mycology	Microscopy	<i>Verticillium dahlia</i> - Lcb 4.1 Freeze Blotter Method (modified from duToit et al., 2005)
Virology	Target RNA presence or absence by qPCR	So 6.1 Method for testing Pospiviroids (CLVd, PCFVd, PSTVd, TASVd, TCDVd and TPMVd) on tomato (<i>Solanum lycopersicum</i>) and pepper (<i>Capsicum annuum</i>) seeds using TaqMan RT-PCR; So 7.1 Method for testing Tomato brown rugose fruit virus (ToBRFV) on tomato (<i>Solanum lycopersicum</i>) and pepper (<i>Capsicum annuum</i>) seeds using TaqMan RT-PCR
Virology	Target Protein presence or absence by ELISA/ Relevant Kit Manufacturer Protocol	EBDI 16000 Protocol for Double Antibody Sandwich (DAS) ELISA Assay



Accredited Laboratory

A2LA has accredited

EUROFINS BIODIAGNOSTICS INC.

Longmont, CO

for technical competence in the field of

Biological Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23rd day of July 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4257.01
Valid to July 31, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Biological Scope of Accreditation.