



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EUROFINS BIODIAGNOSTICS, INC.
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BIOLOGICAL

Valid To: July 31, 2019

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:

Test Type(s)/Technology:	Test Method:
Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + pathogenicity assay / "International Rules for Seed Testing" Annex to Chapter 7: "Seed Health Testing Methods"	7-023: Detection of <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> on <i>Phaseolus vulgaris</i> (bean)
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"	7-021: Detection of <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> var. <i>fuscans</i> in <i>Phaseolus vulgaris</i> (bean) seed (2014)
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"	7-019a: Detection of <i>Xanthomonas campestris</i> pv. <i>campestris</i> in <i>Brassica</i> spp. (Version 5)
Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + pathogenicity assay/NSHS Method/ISHI-Vegetables Method (tomato)	Method for Detection of <i>Xanthomonas</i> spp. Detection on Tomato Seed (Version 4)

Test Type(s)/Technology:	Test Method:
Bacterial pathogen detection using seed wash + dilution plating on semi selective media + confirmation with non-selective media + PCR and/or pathogenicity assay/ISHI-Vegetables method	EBDI. 1300 Method for the Detection of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> on Tomato seed (version 4.3.1) and EBDI. 13001 Detection of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> using TaqMan® Q-PCR
Germination/AOSA Rules for Testing Seeds	EBDI.19000 Germination Testing
Microscopy	EBDI.15000 Seed Borne Pathogen Detection Protocol for <i>Phoma lingam</i> (Teleomorph <i>Leptosphaeria maculans</i>)
Microscopy	EBDI.15001 Seed-borne Pathogen Detection for <i>Didymella bryoniae</i> (Anamorph <i>Phoma cucurbitacearum</i>)
Microscopy	EBDI.15002 Seed-Borne Pathogen Detection for <i>Verticillium dahlia</i>
Pathogen detection using Growout + symptomatology	EBDI.14000 Detection of <i>Acidovorax citrulli</i> (Ac) in Cucurbit Seeds by Grow-out Symptomatology
Pathogen detection using seed wash + PCR	EBDI.14001 <i>Acidovorax citrulli</i> (Ac) Seedwash PCR Method with Qiagen kit
Protein presence or absence by ELISA/Relevant Kit Manufacturer Protocol	EBDI.16000 Protocol for Double Antibody Sandwich (DAS) ELISA Assay
Purity and Noxious testing/AOSA Rules for Testing Seeds	EBDI.19001 Purity and Noxious Testing Procedure
TZ testing/AOSA Rules for Testing Seeds	EBDI.19002 TZ Procedure





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 17025:2005 *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 8 January 2009).



Presented this 15th day of June 2017.

A handwritten signature in black ink, appearing to read "L. Sen", written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4257.01
Valid to July 31, 2019
Revised July 5, 2018

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