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Plant Protection and Inspection Services (PPIS)
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March 19, 2019

Re: MICROBIOLOGICAL TEST OF SEEDS

Official sample No.41531-2019/2
Certificate import no. 64412-2019

Sample Details:

Sample:	Coated pepper seeds Capsicum Annum	Lab ID:	1501
Variety:	DENIRO	Seeds origin:	NETHERLANDS
Lot No.	5703079	Name of official Sampler:	Meirav Maor
Weight of sample:	120gr	Seed owner:	Efal Chemicals
Weight of shipment:		Date sampled: 05.03.2019	Date Received: 07.03.2019

Tested for:	**RESULTS**
Pseudomonas corrugata - 2 replicates of 5000 seeds	Negative
Clavibacter michiganensis subsp. michiganensis - 2 replicates of 5000 seeds	Negative
Erwinia carotovora - 2 replicates of 5000 seeds	Negative
Xanthomonas vesicatoria- 2 replicates of 5000 seeds	Negative
Tobamoviruses (TMV,ToMV, ToMMV, PMMoV, ToBRFV) - 12 replicates of 250 seeds each, by the Bioassay method.	Negative
Tomato black ring nepovirus - 1 replicate of 250 seeds	Negative
Tomato ringspot nepovirus -1 replicate of 250 seeds	Negative
Potato spindle tuber viroid (PSTVd) - 3 replicates of 1000 seeds	Negative
Phytophthora capsici - 400 seeds	Negative

The tests were performed according to:
S.O.P 54: "Testing Tomato and Pepper seeds for Pt, Pc, Xv, Cmm, Er".
S.O.P 56: "Detection of infectious Tobamoviruses in tomato and pepper plants and seeds" according to: ISTA 7-028 (2019), ISHI-Veg (Sep 2019) "Detection of Infectious Tobamoviruses in Tomato seed" and " Detection of Infectious Tobamoviruses in Pepper seed".
S.O.P 80: "Detection of Viroid from the Pospiviroid group including Potato Spindle Tuber Viroid (PSTVd) in plants and seeds by RT-PCR or qPCR method" according to NAKT Ver. 1.2.
S.O.P 83: "Detection of Fungi in seeds for: *Fusarium, Didymella, Phoma, Lasiodiplodia Macrophomina, Colletotrichum, Alternaria, Stemphylium, Cladosporium, Phytophthora, Verticillium.*
S.O.P 103: "Detection of viruses in Solanacea seeds".

Comments:

1. Transportation: The sample was received in the laboratory without any means of protection from temperature changes.
2. Treatment: not indicated.
3. ISRAC is not responsible for the testing results conducted by the laboratory and the laboratory's accreditation is not considered as an approval of ISRAC or different party related to the assessed.
4 This document must be referred to entirely and copying of any part of it to other documents is forbidden
5. The data in this certificate reflect results that are valid for analyzed samples only as received in the lab.

Final results are the PPIS representative responsibility.
End of certificate.

Sincerely yours,
Isaac Assouline,
Head, Microlab Laboratories (99) LTD.