

רח' אופנהיימר 5 פארק רבין, רחובות
 טל. 08-9362280
 פקס. 08-9361247

Shlomit Sinai
 Plant Protection and Inspection Services (PPIS)
 Ben Gurion Air port
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December 08, 2019

Re: MICROBIOLOGICAL TEST OF SEEDS

Official sample No.44312-2019/2
 Certificate import no. 81824-2019

Sample Details:

Sample:	Coated pepper seeds Capsicum Annum	Lab ID:	7631
Variety:	DENIRO	Seeds origin:	NETHERLANDS
Lot No.	5927136	Name of official Sampler:	Shlomit Sinai
Weight of sample:	110gr	Seed owner:	Efal Chemicals
Weight of shipment:		Date sampled: 25.11.2019	Date Received: 27.11.2019

Tested for:	RESULTS
Pseudomonas corrugata - 2 replicates of 5000 seeds each	Negative
Clavibacter michiganensis subsp. michiganensis - 2 replicates of 5000 seeds each	Negative
Erwinia carotovora - 2 replicates of 5000 seeds each	Negative
Xanthomonas vesicatoria- 2 replicates of 5000 seeds each	Negative
Tobamoviruses (TMV ToMV, ToMMV, PMMoV, *ToBRFV) - 12 replicates of 250 seeds each, by 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) - 6 replicates of 500 seeds each, by the PCR method .	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 Tobamoviruses in tomato and pepper plants and seeds"
- 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".
- 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".

Comments:

- *The lab has PPIS recognition/certification for this test but not accreditation from ISRAC.
- 1. **Transportation:** The sample was received in the laboratory without any means of protection from temperature changes.
- 2. **Treatment:** The seeds were treated by THIRAM (TMTD), the treatment may interfere or mask the results.
- 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.
- 6. The tests performed according to ISO17025 standards.
- 7.The protocols are not valid for coated/pelleted seeds.

Final results are the PPIS representative responsibility.

End of certificate.

Sincerely yours,

 Isaac Assouline

Head, Microlab Laboratories (99) LTD.