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January 28, 2020

Re: **MICROBIOLOGICAL TEST OF SEEDS**

Official sample No.44833-2020/2
Certificate import no. 85631-2020

Sample Details:

Sample:	Coated pepper seeds Capsicum Annum	Lab ID:	298
Variety:	CLAIR	Seeds origin:	INDIA
Lot No.	5860776	Name of official Sampler:	Betty Levi
Weight of sample:	120gr	Seed owner:	Efal Chemicals
Weight of shipment:	2.01 Kg	Date sampled:14.01.2020	Date Received: 16.01.2020

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 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 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".

Lab ID 298:

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: unknown.

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 test performed is under certification to ISO/IEC 17025 standard

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.