European Commission

Draft Assessment Report prepared according to the Commission Regulation (EU) N° 1107/2009

Pepino Mosaic Virus, EU strain, mild isolate Abp1
Pepino Mosaic Virus, CH2 strain, mild isolate Abp2
Active organism data

Volume 3 – Annex B.3 Data on application

Rapporteur Member State: Spain

July 2019

Version History

When	What
	Completeness check report of the dossier submitted by the notifier
March 2019	DAR submitted to the Notifier. Reception of comments
July 2019	DAR revised

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B.3 DATA ON APPLICATION

B.3.1 Function

Both mild isolates function as elicitors: control of PepMV aggressive isolates by cross-protection after virus inoculation.

B.3.2 Field of use envisaged

Horticulture (protected crops).

B.3.3 Crops or products protected or treated

Greenhouse tomato production.

B.3.4 Method of production and quality control

Confidential please refer to Document J-MA 3.4.1 and Document K-MA 3.4/01 (Agüero, 2017a).

B.3.5 Information on the occurrence or possible occurrence of the development of resistance of the target organism(s)

The mode of action is based on cross-protection: tomato seedlings are inoculated ("vaccinated") with AbioProtect® in order to protect the plants against new infections with more aggressive isolates of PepMV, from either the EU strain or the CH2 strain, or any other PepMV strain, through pre-activation of several mechanisms including the antiviral RNA silencing pathway as described in Document M-MA 2.2.2. These mechanisms are homology-based, meaning that the higher the similarity of the challenging virus, the more likely that cross-protection works. Given that AbioProtect® includes two isolates which nucleotide identity is 78.4 %, it can be considered that in terms of nucleotide similarity AbioProtect® covers the whole genetic space corresponding to the PepMV species.

Therefore, development of resistance is extremely unlikely in this case.

B.3.6 Methods to prevent loss of virulence of seed stock of the micro-organism

The production process is specifically designed to avoid the loss of virulence of the seed stock of the microorganism.

Confidential information please refer to Document J-MA 3.6 and in Document K-MA 3.4/01 (Agüero, 2017a) for detailed information.

B.3.7 References relied on

Agüero J. (2017a) Method of production of the Microbial Pest Control Agents (MPCAs) PepMV, EU strain, mild isolate Abp1 and PepMV, CH2 strain, mild isolate Abp2 and manufacturing of the Microbial Pest Control Product (MPCP) AbioProtect®. Abiopep S.L., Spain.

Data point[a]	**Author(s)**	**Year**	**Title** **Company Report No** **Source (where different from company)** **GLP or GEP status** **Published or not**	**Verte-brate study** **Y/N**	**Data Protec-tion Claimed** **Y/N**	**Justification if data protection is claimed**	**Owner***