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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

ENLARGED EDITORIAL COMMITTEE

Geneva, January 7 and 8, 2015

PARTIAL REVISION OF THE TEST GUIDELINES FOR CUCUMBER (DOCUMENT TG/61/7 REV.)

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1. At its forty-eighth session held in Paestum, Italy, from June 23 to 27, 2014, the Technical Working Party for Vegetables (TWV) considered a partial revision of the Test Guidelines for Cucumber on the basis of documents TG/61/7 and TWV/48/32 "Partial Revision of the Test Guidelines for Cucumber (Document TG/61/7)" and proposed to revise the Test Guidelines for Cucumber as follows (see document TWV/48/43 "Report", paragraph 95):

- Addition of a new characteristic 51 "Resistance to Cucurbit yellow stunting disorder virus (CYSDV)" after Characteristic 50 in Chapter 7 "Table of Characteristics" with an explanation for individual characteristics, and to add the Characteristic to Chapter TQ 7 "Additional information which may help in the examination of the variety"

New Characteristic 51 "Resistance to Cucurbit yellow stunting disorder virus (CYSDV)"

51. **(+)**	**Resistance to Cucurbit yellow stunting disorder virus (CYSDV)**	**Résistance au Cucurbit yellow stunting disorder virus (CYSDV)**	**Resistenz gegen Cucurbit yellow stunting disorder virus (CYSDV)**	**Resistencia al virus del amarilleo del pepino (CYSDV)**		
QL	absent	absente	fehlend	ausente	Burgos, Castro, Corona	1
	present	présente	vorhanden	presente	Atalaya, Fortyca	9

Ad. 51: Resistance to Cucurbit yellow stunting disorder virus (CYSDV)

1.	Pathogen	Cucurbit yellow stunting disorder virus
2.	Quarantine status	yes
3.	Host species	*Cucumber sativus, Cucumis melo, Cucurbita pepo, Citrullus lanatus*
4.	Source of inoculum	CSIC-La Mayora (Spain)
5.	Isolate	CYSDV La Mayora
6.	Establishment isolate identity	-
7.	Establishment pathogenicity	-
8.	Multiplication inoculum	
8.1	Multiplication medium	-
8.2	Multiplication variety	-
8.3	Plant stage at inoculation	-
8.4	Inoculation medium	-
8.5	Inoculation method	-
8.6	Harvest of inoculum	-
8.7	Check of harvested inoculum	-
8.8	Shelflife/viability inoculum	-
9.	Format of the test	
9.1	Number of plants per genotype	20
9.2	Number of replicates	2
9.3	Control varieties	
	Susceptible	(Cucumis sativus) Burgos, Castro, Corona
	Resistant	(Cucumis sativus) Atalaya, Fortyca
9.4	Test design	-
9.5	Test facility	Greenhouse/plastic tunnel/climatic chamber
9.6	Temperature	-
9.7	Light	-
9.8	Season	-
9.9	Special measures	prevent spread of white-flies. Plants should be covered with a white-fly-proof net in the greenhouse
10.	Inoculation	
10.1	Preparation inoculum	-
10.2	Quantification inoculum	-
10.3	Plant stage at inoculation	2-4 weeks
10.4	Inoculation method	vector (Bemisia white-flies carrying CYSDV)
10.5	First observation	-
10.6	Second observation	-
10.7	Final observations	1-2 months after inoculation
11.	Observations	
11.1	Method	visual
11.2	Observation scale	symptoms: leaf yellowing
11.3	Validation of test	evaluation of variety resistance should be calibrated with results of resistant and susceptible controls
11.4	Off-types	-
12.	Interpretation of data in terms of UPOV characteristic states	
	absent	[1] severe symptoms
	present	[9] no or mild symptoms

13.	Critical control points	In the not recommended case of natural infection, the source of inoculum is not controlled. Then, the identity of the virus should be confirmed by PCR or hybridization, because the symptoms may be similar to those caused by other virus.

Addition of Characteristic 51 to Chapter TQ 7 "Additional information which may help in the examination of the variety"

"[…]

7.3 Other information

7.3.1 Resistance to pests and diseases (please specify races/strains if possible)

		absent	present	not tested
(a)	Resistance to Downy mildew (*Pseudoperonospora cubensis*) (Pcu) (char. 47)	[ ]	[ ]	[ ]
(b)	Resistance *to Zucchini yellow mosaic virus* (ZYMV) (char. 50)	[ ]	[ ]	[ ]
(c)	Resistance to Cucurbit yellow stunting disorder virus (CYSDV) (char. 51)	[ ]	[ ]	[ ]

[…]"

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