

Technical Working Party for Vegetables

TWV/57/5

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PARTIAL REVISION OF THE TEST GUIDELINES FOR CUCUMBER, GHERKIN

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1. The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Cucumber, Gherkin (document TG/61/7 Rev. 2 Corr. 2) for inclusion of characteristics from the Table of Characteristics in the Technical Questionnaire.
2. The background to the proposed partial revision of the Test Guidelines for Cucumber, Gherkin (*Cucumis sativus* L.) is presented in document TWP/7/6 "Revision of Test Guidelines".
3. The TWV is invited to consider the inclusion of the following characteristics in the TQ (characteristics for inclusion indicated in highlight and underline):

Char. No.	(*) Characteristic Name	Comments
1	(*) Cotyledon: bitterness	
2	(*) <u>Plant: growth type</u>	
5	<u>Leaf blade: length</u>	
8	<u>Leaf blade: intensity of green color</u>	
13	(*) Plant: sex expression	
14	<u>Plant: number of female flowers per node</u>	
15	(*) Ovary: color of vestiture	
16	(*) Parthenocarpy	
17	(*) Fruit: length	
18	<u>Fruit: diameter</u>	
22	(*) Fruit: shape of stem end	
23	<u>Only necked varieties: Fruit: length of neck</u>	Option "not applicable" added
25	(*) Fruit: ground color of skin at market stage	
26	<u>Excluding white varieties: Fruit: intensity of ground color of skin (as for 25)</u>	Option "not applicable" added
27	(*) <u>Fruit: ribs</u>	
29	(*) <u>Fruit: creasing</u>	
30	<u>Fruit: degree of creasing</u>	Option "not applicable" added
31	(*) Fruit: type of vestiture	
32	<u>Fruit: density of vestiture</u>	
35	<u>Fruit: size of warts</u>	
36	<u>Fruit: length of stripes</u>	
37	(*) <u>Fruit: dots</u>	

44	Resistance to <i>Cladosporium cucumerinum</i> (Ccu)	
45	Resistance to <i>Cucumber mosaic virus</i> (CMV)	
46	Resistance to Powdery mildew (<i>Podosphaera xanthii</i>) (Px)	
47	<u>Resistance to Downy mildew (<i>Pseudoperonospora cubensis</i>) (Pcu)</u>	Option "not tested " added
48	Resistance to <i>Corynespora</i> blight and target leaf spot (<i>Corynespora cassicola</i>) (Cca)	
49	Resistance to <i>Cucumber vein yellowing virus</i> (CVYV)	
50	<u>Resistance to <i>Zucchini yellow mosaic virus</i> (ZYMV)</u>	Option "not tested " added
51	<u>Resistance to <i>Cucurbit yellow stunting disorder virus</i> (CYSDV)</u>	Option "not tested " added

4. The proposed additions to TQ 5 are presented in highlight and underline.

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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
5.1 Cotyledon: bitterness (1)		
absent	Rocket GS, Sandra	1 []
present	Farbio	9 []
5.2 Plant: growth type (2)		
<u>determinate</u>	<u>Bush Crop, Shachal</u>	1 []
<u>indeterminate</u>	<u>Corona, Levina</u>	2 []
5.3 Leaf blade: length (5)		
<u>very short</u>		1 []
<u>very short to short</u>		2 []
<u>short</u>	<u>Adam</u>	3 []
<u>short to medium</u>		4 []
<u>medium</u>	<u>Briljant</u>	5 []
<u>medium to long</u>		6 []
<u>long</u>	<u>Corona</u>	7 []
<u>long to very long</u>		8 []
<u>very long</u>		9 []
5.4 Leaf blade: intensity of green color (8)		
<u>very light</u>		1 []
<u>very light to light</u>		2 []
<u>light</u>	<u>De Russie</u>	3 []
<u>light to medium</u>		4 []
<u>medium</u>	<u>Rocket GS, Stereo</u>	5 []
<u>medium to dark</u>		6 []
<u>dark</u>	<u>Marketmore, Sandra,</u> <u>Tokyo Slicer</u>	7 []
<u>dark to very dark</u>		8 []
<u>very dark</u>	<u>Akito</u>	9 []

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Characteristics	Example Varieties	Note	
5.2 5 (13)	Plant: sex expression		
monoecious	Hokus	1 []	
subgynoecious	Toska 70	2 []	
gynoecious	Farbio, Sandra, Wilma	3 []	
hermaphroditic	Sunsweet	4 []	
5.6 (14)	Plant: number of female flowers per node		
<u>predominantly one</u>	<u>Dasher, Faraón</u>	<u>1 []</u>	
<u>predominantly one or two</u>	<u>Brunex, Marumba</u>	<u>2 []</u>	
<u>predominantly two</u>	<u>Corona</u>	<u>3 []</u>	
<u>predominantly two or three</u>	<u>Tempo</u>	<u>4 []</u>	
<u>predominantly three or four</u>	<u>Tornac</u>	<u>5 []</u>	
<u>predominantly four or five</u>	<u>Melody</u>	<u>6 []</u>	
<u>predominantly more than five</u>	<u>Olympos</u>	<u>7 []</u>	
5.3 7 (15)	Ovary: color of vestiture		
white	Jazzer	1 []	
black	Vert petit de Paris	2 []	
5.4 8 (16)	Parthenocarpy		
absent	Toska 70	1 []	
present	Farbio, Rocket GS, Sandra, Wilma	9 []	
5.4 9 (17)	Fruit: length		
very short	De Russie, Sunsweet	1 []	
<u>very short to short</u>		<u>2 []</u>	
short		3 []	
<u>short to medium</u>		<u>4 []</u>	
medium	Gemini, Jazzer	5 []	
<u>medium to long</u>		<u>6 []</u>	
long	Corona	7 []	
<u>long to very long</u>		<u>8 []</u>	
very long		9 []	

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Characteristics	Example Varieties	Note
5.10 Fruit: diameter (18)		
<u>very small</u>		1 []
<u>very small to small</u>		2 []
<u>small</u>	<u>Picobello, Wilma</u>	3 []
<u>small to medium</u>		4 []
<u>medium</u>	<u>Corona, Diamant</u>	5 []
<u>medium to large</u>		6 []
<u>large</u>	<u>Delikatess, Riesenschäl</u>	7 []
<u>large to very large</u>		8 []
<u>very large</u>		9 []
5.6 11 Fruit: shape of stem end (22)		
necked	Sandra, Tasty Green	1 []
acute	De Massy	2 []
obtuse	Maram, Score	3 []
5.12 Only necked varieties: Fruit: length of neck (23)		
<u>very short</u>		1 []
<u>very short to short</u>		2 []
<u>short</u>	<u>Saskia</u>	3 []
<u>short to medium</u>		4 []
<u>medium</u>	<u>Corona, Telepathy</u>	5 []
<u>medium to long</u>		6 []
<u>long</u>	<u>Kamaron</u>	7 []
<u>long to very long</u>		8 []
<u>very long</u>	<u>Tasty Green</u>	9 []
<u>not applicable</u>		[]
5.7 13 Fruit: ground color of skin at market stage (25)		
white	Bonneuil	1 []
yellow	Gele Tros	2 []
green	Corona	3 []

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Characteristics	Example Varieties	Note
5.14 (26)	<u>Excluding white varieties: Fruit: intensity of ground color of skin (as for 25)</u>	
<u>very light</u>		1[]
<u>very light to light</u>		2[]
<u>light</u>		3[]
<u>light to medium</u>		4[]
<u>medium</u>		5[]
<u>medium to dark</u>		6[]
<u>dark</u>		7[]
<u>dark to very dark</u>		8[]
<u>very dark</u>		9[]
<u>not applicable</u>		[]
5.15 (27)	<u>Fruit: ribs</u>	
<u>absent or weak</u>	<u>Darius, Diana</u>	1[]
<u>medium</u>	<u>Sprint</u>	2[]
<u>strong</u>	<u>Vert petit de Paris</u>	3[]
5.16 (29)	<u>Fruit: creasing</u>	
<u>absent</u>	<u>Jazzer</u>	1[]
<u>present</u>	<u>Corona, Nabil</u>	9[]
5.17 (30)	<u>Fruit: degree of creasing</u>	
<u>very weak</u>	<u>Silor</u>	1[]
<u>very weak to weak</u>		2[]
<u>weak</u>	<u>Nabil</u>	3[]
<u>weak to medium</u>		4[]
<u>medium</u>	<u>Corona, Galileo</u>	5[]
<u>medium to strong</u>		6[]
<u>strong</u>	<u>Grizzly</u>	7[]
<u>strong to very strong</u>		8[]
<u>very strong</u>	<u>Suyo Long</u>	9[]
<u>not applicable</u>		[]

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Characteristics	Example Varieties	Note
5.8 18 Fruit: type of vestiture (31)		
hairs only	Silor	1 []
hairs and prickles	De Bourbonne, De Massy	2 []
prickles only	Corona, Jazzer	3 []
5.19 Fruit: density of vestiture (32)		
<u>very sparse</u>	<u>Vert petit de Paris</u>	<u>1 []</u>
<u>very sparse to sparse</u>		<u>2 []</u>
<u>sparse</u>		<u>3 []</u>
<u>sparse to medium</u>		<u>4 []</u>
<u>medium</u>	<u>Tasty Green</u>	<u>5 []</u>
<u>medium to dense</u>		<u>6 []</u>
<u>dense</u>	<u>Silor, Suvo Long</u>	<u>7 []</u>
<u>dense to very dense</u>		<u>8 []</u>
<u>very dense</u>	<u>Moneta, Parmel</u>	<u>9 []</u>
5.20 Fruit: size of warts (35)		
<u>very small</u>	<u>Parmel</u>	<u>1 []</u>
<u>very small to small</u>		<u>2 []</u>
<u>small</u>	<u>Jazzer</u>	<u>3 []</u>
<u>small to medium</u>		<u>4 []</u>
<u>medium</u>	<u>Regal</u>	<u>5 []</u>
<u>medium to large</u>		<u>6 []</u>
<u>large</u>	<u>Chinese Slangen</u>	<u>7 []</u>
<u>large to very large</u>		<u>8 []</u>
<u>very large</u>	<u>Tasty Green</u>	<u>9 []</u>

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Characteristics	Example Varieties	Note
5.21 Fruit: length of stripes (36)		
<u>absent or very short</u>		1[]
<u>very short to short</u>		2[]
<u>short</u>	<u>Astrea</u>	3[]
<u>short to medium</u>		4[]
<u>medium</u>	<u>Breso</u>	5[]
<u>medium to long</u>		6[]
<u>long</u>	<u>Pioneer, Tokyo Slicer</u>	7[]
<u>long to very long</u>		8[]
<u>very long</u>	<u>Suyo Long</u>	9[]
5.22 Fruit: dots (37)		
<u>absent</u>	<u>Sensation</u>	1[]
<u>present</u>	<u>Delicatesse,</u> <u>Hanpaku-Fushinari,</u> <u>Sagami-Fanpaku,</u> <u>White Sun</u>	9[]
5.9 23 Resistance to <i>Cladosporium cucumerinum</i> (Ccu) (44)		
absent	Cherubino, Frontera, Pepinex 69	1[]
present	Corona, Marketmore 76, Sheila	9[]
not tested		[]
5.10 24 Resistance to <i>Cucumber mosaic virus</i> (CMV) (45)		
susceptible	Bosporus, Corona, Ventura	1[]
moderately resistant	Capra, Gardon, Verdon	2[]
highly resistant	Naf, Picolino	3[]
not tested		[]
5.11 25 Resistance to Powdery mildew (<i>Podosphaera xanthii</i>) (Px) (46)		
susceptible	Corona, Ventura	1[]
moderately resistant	Flamingo	2[]
highly resistant	Aramon, Bella, Cordoba	3[]
not tested		[]

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Characteristics	Example Varieties	Note
<u>5.26</u> <u>(47)</u> <u>Resistance to Downy mildew (<i>Pseudoperonospora cubensis</i>) (Pcu)</u>		
<u>absent</u>	<u>Pepinex 69, Wisconsin</u>	<u>1 []</u>
<u>present</u>	<u>Poinsett 76</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>
<u>5.12 27</u> <u>(48)</u> <u>Resistance to Corynespora blight and target leaf pot (<i>Corynespora cassicola</i>) (Cca)</u>		
<u>absent</u>	<u>Bodega, Pepinova</u>	<u>1 []</u>
<u>present</u>	<u>Corona, Cumlaude</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>
<u>5.13 28</u> <u>(49)</u> <u>Resistance to Cucumber vein yellowing virus (CVYV)</u>		
<u>absent</u>	<u>Corinda, Corona, Ventura</u>	<u>1 []</u>
<u>present</u>	<u>Dina, Summerstar, Tornac</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>
<u>5.29</u> <u>(50)</u> <u>Resistance to Zucchini yellow mosaic virus (ZYMV)</u>		
<u>absent</u>	<u>Corona, Hilton, Ventura</u>	<u>1 []</u>
<u>present</u>	<u>Dina, Summerstar, Thunder</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>
<u>5.30</u> <u>(51)</u> <u>Resistance to Cucurbit yellow stunting disorder virus (CYSDV)</u>		
<u>absent</u>	<u>Burgos, Castro, Corona</u>	<u>1 []</u>
<u>present</u>	<u>Atalaya, Fortyca</u>	<u>9 []</u>
<u>not tested</u>		<u>[]</u>

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