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WORKING PAPER ON TEST GUIDELINES FOR TOMATO
(Lycopersicon lycopersicum (L.) Karsten ex Farw.)

Document prepared by experts from the Netherlands

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I. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Lycopersicon lycopersicum (L.) Karsten ex Farw.*

II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the seed required for testing the variety is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must make sure that all customs formalities are complied with. The minimum quantity of seed to be supplied by the applicant in one or several samples should be:

- a) vegetatively propagated varieties: 50 plants
- b) seed propagated varieties: 25 g of seed (10 g. for hybrids)

The germination capacity should be as high as possible but at least meet the minimum requirements for germination capacity, moisture content and purity for marketing seed in the country in which the application is made.

2. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

III. Conduct of Tests

1. The minimum duration of tests should normally be two similar growing periods.

2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.

3. The tests should be carried out under conditions ensuring normal growth. The size of the plots should be such that plants or parts of plants may be removed for measurement and counting without prejudice to the observations which must be made up to the end of the growing period. As a minimum, each test should include a total of 20 plants in the glasshouse or 40 plants in the open which should be divided between two or more replicates. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions. Varieties stemming from tissue culture should, in addition, be compared to plant material of comparable varieties raised under the same conditions.

4. Additional tests for special purposes may be established.

IV. Methods and Observations

1. All observations determined by measurement or counting should be made on 20 plants or parts of 20 plants.

2. When resistance characteristics are used for assessing distinctness, homogeneity and stability, records must be taken under conditions of controlled infection and, unless otherwise specified, on at least 10 plants.

V. Grouping of Varieties

1. The collection of varieties to be grown should be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety. Their various states of expression should be fairly evenly distributed throughout the collection.

2. It is recommended that the competent authorities use the following characteristics for grouping varieties:

- a) Plant: growth type (characteristic 2)
- b) Leaf: division of blade (characteristic 10)
- c) Peduncle: abscission layer (characteristic 18)
- d) Fruit: shape in longitudinal section (characteristic 22)
- e) Fruit: predominant number of locules (characteristic 31)
- f) Fruit: green shoulder (before maturity) (characteristic 32)
- g) Fruit: color at maturity (characteristic 36)

VI. Characteristics and Symbols

1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the Table of Characteristics should be used.

2. Notes (numbers) for the purpose of electronic data processing, are given opposite the states of expression for each characteristic.

3. Legend:

(*) Characteristics that should be used on all varieties in every growing period over which the examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.

(+) See Explanations on the Table of Characteristics in chapter VIII.

VII. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	Seedling: anthocyanin coloration of hypocotyl					
	absent					1
	present				Montfavet H 63.4	9
2.	Plant: growth type					
	determinate				Campbell 1327	1
	semi-determinate				Marmande	2
	indeterminate				Saint-Pierre	3
3. <u>Determinate varieties only:</u>	Plant: number of nodes on main stem (side shoots to be removed)					
	few				Campbell 1327	3
	medium				Montfavet H 63.4	5
	many				Prisca	7
4. <u>Indeterminate varieties only:</u>	Plant: speed of growth (when fastest variety reached at least 1,5 m height)					
	slow				Colombo, Dombello, Dombito	3
	medium				Bandor, Blizzard, Furiak	5
	fast				Favorset, Fignon, Goldstar	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
5.	Stem: anthocyanin coloration of upper third					
	absent or very weak					1
	weak				Montfavet H 63.5	3
	medium				Futura, Rondello	5
	strong				Etna, Grinta, Nemato	7
	very strong					9
6.	Stem: length of internode (between 1st and 4th inflorescence)					
<u>Indeterminate varieties only</u>	short				Dombo, Dombito, Manific, paso	3
	medium				Montfavet H 63.5	5
	long				Berdy, Bongo, Cristina, Novy	7
7. (*)	Leaf: attitude (in middle third of plant)					
	semi-erect				Allround	3
	horizontal				Futura	5
	semi-drooping				Montfavet H 63.5	7
8. (*)	Leaf: length					
	short				Perfecto, Nelson	3
	medium				Lorena	5
	long				Barbara, Montfavet H 63.5	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9. (*)	Leaf: width					
	narrow				Supermarmande	3
	medium					5
	broad				Saint-Pierre	7
10. (*)	Leaf: division of blade					
	pinnate				Pilot, Red Jacket, Mikado	1
	bipinnate				Lukullus, Saint-Pierre	2
10a	Leaf: size of leaflets (in middle of leaf)					
	small				Tiny Tim	3
	medium				Marmande	5
	large				Daniela	7
12.	Leaf: intensity of green color					
	light				Macero II, Rossol	3
	medium				Lucy	5
	dark				Allround, Lorena, Red Robin, Sweet Million	7
12a	Leaf: glossiness (as for 7)					
	weak				Daniela	3
	medium				Marmande	5
	strong				Guindella	7
12b	Leaf: blistering (as for 7)					
	weak				Daniela	3
	medium				Marmande	5
	strong				Tiny Tim	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12c	Leaf: size of blisters (as for 7)					
	small				Husky Cherrie Red	3
	medium				Marmande	5
	large				Daniela	7
13.	Leaf: attitude of leaflets in relation to main axis (as for 7)					
	erect				Blizzard, Allround	1
	semi-erect				Marmande	3
	horizontal				Sonatine	5
	semi-drooping				Montfavet H63.5	7
14.	Inflorescence: type (2n and 3rd truss)					
	generally uniparous				Dynamo	1
	partly uniparous, partly multiparous				Harzfeuer	2
	generally multiparous				Marmande	3
15.	Flower: fasciation (1st flower of inflorescences)					
	absent				Monalbo, Moneymaker	1
	present				Marmande	9
16.	Flower: pubescence of style					
	absent				Cambell 1327	1
	present				Saint-Pierre	9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.	Flower: color					
	yellow					1
	orange					2
18. (*)	Peduncle: abscission layer					
	absent				Aledo, Bandera, Count, Lerica	1
	present				Montfavet H 63.5, Roma	9
19. (+)	Pedicle: length (from abscission layer to calyx)					
	short				Cerise, Montfavet H 63.18, Rossol, Ferline	3
	medium				Dario, Primosol	5
	long				Erlidor, Ramy, Ranco	7
20. (*)	Fruit: size					
	very small				Cerise, Sweet 1000	1
	small				Early Mech, Europeel, Roma	3
	medium				Alphamech, Diego	5
	large				Carmello, Ringo	7
	very large				Erlidor, Lydia, Muril	9
21. (*)	Fruit: ratio length/width					
	very small				Campell 28, Marmande	1
	small					3
	medium				Early Mech, Peto Gro	5
	large				Rio Grande, Rimone	7
	very large				Macero II	9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22. (* (+)	Fruit: shape in longitudinal section					
	flattened				Campbell 28, Marmande	1
	slightly flattened				Montfavet H 63.5, Montfavet H 63.4	2
	round				Cerise Moneymaker	3
	rectangular				Early Mech, Peto Gro	4
	cylindrical				Hypeel 244, Macero II, San Marzano 2	5
	heart-shaped				Cobra	6
	obovoid				Barbara	7
	ovoid				Rimone, Rio Grande	8
	pear-shaped				Europeel	9
23. (*	Fruit: ribbing at stalk end					
	absent or very weak				Cerise	1
	weak				Early Mech, Hypeel 244, Melody, Peto Gro, Rio Grande	3
	medium				Montfavet H 63.4, Montfavet H 63.5	5
	strong				Campbell 1327, Carmello, Count	7
	very strong				Marmande	9
24.	Fruit: cross section					
	not round				Ranco, San Marzano	1
	round				Cerise, Ferline	2

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
25. (+)	Fruit: depression at stalk end					
	absent or very weak				Europeel, Heinz 1206, Rossol	1
	weak				Futura, Melody	3
	medium				Carmello, Count, Fandango, Saint-Pierre	5
	strong				Ballon Rouge, Marmande VF	7
	very strong					9
26.	Fruit: size of peduncle scar					
	small					3
	medium					5
	large					7
27.	Fruit: size of blossom scar					
	very small				Albica, Cerise, Early Mech, Europeel, Heinz 1706, Peto Gro, Rio Grande	1
	small				Montfavet H 63.4, Montfavet H 63.5	3
	medium				Alphamech, Apla, Carmello, Floradade	5
	large				Campbell 1327, Count, Marmande, Saint-Pierre	7
	very large					9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28. (+)	Fruit: shape at blossom end					
	indented				Marmande, Super Mech	3
	indented to flat				Carmello, Fandango	4
	flat				Montfavet H 63.4, Montfavet H 63.5	5
	flat to pointed				Cal J, Early Mech, Peto Gro	6
	pointed				Europeel, Heinz 1706, Hypeel 244, Roma VF	7
29. (+)	Fruit: size of core in cross section (in relation to total diameter)					
	very small				Cerise	1
	small				Early Mech, Europee, Heinz 1706, Peto Gro, Rio Grande, Rossol	3
	medium				Montfavet H 63.4, Montfavet H 63.5	5
	large				Alpa, Campbell 1327, Carmello, Count, Fandango, Flora Dade	7
	very large				Marmande	9
30.	Fruit: thickness of the pericarp					
	thin				Marmande	3
	medium				Carmello, Europeel, Floradade, Heinz 1706 Montfavet H 63.5	5
	thick				Cal J, Ferline, Peto Gro, Rio Grande	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31. (*)	Fruit: predominant number of locules					
	two				Early Mech, Europeel, San Marzano	1
	two and three				Alphamech, Futuria	2
	three and four				Montfavet H 63.5	3
	more than four				Carmello, Marmande	4
32. (*)	Fruit: green shoulder (before maturity)					
	absent				Rio Grande	1
	present				Daniela	9
33.	Fruit: extent of green shoulder (as for 32)					
	small				Cristy, Firestone	3
	medium				Erlidor, Foxy, Montfavet H 63.5	5
	large				Cobra, Delisa, Epona, Manific	7
34.	Fruit: intensity of green colour shoulder (as for 32)					
	weak				Juboline	3
	medium				Montfavet H 63.5	5
	strong				Erlidor	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
35.	Fruit: intensity of green color <u>before</u> maturity					
	light				Capello, Duranto, Rianto	3
	medium				Rody	5
	dark					7
36. (*)	Fruit: color at maturity					
	yellow				Goldene Königin, Yellow Pear	1
	orange				Sungold	2
	pink				House Momotaro	3
	red				Ferline	4
36.a	Fruit: color of epidermis					
	colorless				House Momotaro, White Mirabell	1
	yellow				Yellow Pear	2
	orange				Ferline	3
37.	Fruit: color of flesh (time as for 36)					
	yellow				Jubilée	1
	orange				Sungold	2
	pink				Regina	3
	red				Ferline, Saint-Pierre	4

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
37.a (+)	Fruit: firmness					
	very soft				Marmande	1
	soft				Trend	3
	medium				Cristina	5
	firm				Tradiro	7
	very firm				Daniela	9
38.	Time of flowering (to be observed on 3rd flower of 2nd truss)					
	early				Feria, Primabel	3
	medium				Montfavet H 63.5, Prisca	5
	late				Manific, Saint-Pierre	7
39. (*)	Time of maturity					
	very early				Sungold	1
	early				Feria, Rossol	3
	medium				Montfavet H 63.5	5
	late				Manific, Saint-Pierre	7
	very late				Daniela	9
40.	Fruit; dry matter content (as for 36)					
	low				Bonset	3
	medium					5
	high				Coudoulet, Aloha	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
41. (+)	Insensitivity for expression of silvering					
	absent				Sonatine	1
	present				Marathon, Sano	9
42. (+)	Resistance to <u>Meloidogyne incognita</u>					
	Absent				Casque Rouge, Clairvil	1
	Present				Anabel, Anahu	9
43. (* (+)	Resistance to <u>Verticillium</u>, race 0					
	Absent				Anabel, Marmande verte	1
	Present				Clairvil, Marmande VR	9
(+)	Resistance to <u>Fusarium oxysporum f. sp. lycopersici</u>					
44.1 (*	Race 0 (ex.1)	Absent			Marmande verte	1
		Present			Anabel, Marporum, Marsol	9
44.2 (*	Race 1 (ex.2)	Absent			Marmande verte	1
		Present			Motelle, Walter	9
45. (+)	Resistance to <u>Fusarium oxysporum f. sp. radicis lycopersici</u>					
	absent				Motelle	1
	present				Momor	9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
(+)	<u>Resistance to Cladosporium fulvum</u>					
46.1 Race 0	absent				Monalbo	1
	present				Angela, Estrella, Sonatine, Sonato, Vemone	9
46.2 Group A	absent				Monalbo	1
	present				Angela, Estrella, Sonatine, Sonato	9
46.3 Group B	absent				Monalbo	1
	present				Angela, Estrella, Sonatine, Sonato, Vemone	9
46.4 Group C	absent				Monalbo	1
	present				Angela, Estrella, Sonatine,	9
46.5 Group D	absent				Monalbo	1
	present				Estrella, Sonatine, Vemone	9
46.6 Group E	absent				Monalbo	1
	present				Sonatine	9
(+)	<u>Resistance to Tomato Mosaic Virus</u>					
47.1 Strain 0 (*)	absent				Monalbo	1
	present				Mobaci, Mocimor, Moperou	9
47.2 Strain 1 (*)	absent				Monalbo	1
	present				Mocimor, Moperou	9
47.3 Strain 2 (*)	absent				Monalbo	1
	present				Mobaci, Mocimor	9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
47.4 Strain 1-2	Absent				Monalbo	1
	Present				Lucy, Mocimor, Momor, Rapids	9
48. (+)	<u>Resistance to Phytophthora infestans</u>					
	absent				Heinz 1706, Saint Pierre	1
	present				Heline, Pieraline, Pyros	9
49. (+)	<u>Resistance to Pyrenochaeta lycopersici</u>					
	absent				Montfavet H 63.5	1
	present				Kyndia, Moboglan, Pyrella	9
50. (+)	<u>Resistance to Stemphyllium spp.</u>					
	Absent				Monalbo	1
	Present				Motelle	9
51. (+)	<u>Resistance to Pseudomonas syringae pv. tomato</u>					
	Absent				Monalbo	1
	Present				Ontario 7710	9
52. (+)	<u>Resistance to Pseudomonas syringae pv. solanacearum race 1</u>					
	Absent				Floradel	1
	Present				Caraïbo	9

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
53. (+)	Resistance to <u>Tomato Yellow Leaf Curl Virus</u>					
	Absent				Montfayet H 63.5	1
	Present				TY 20	9
54.	Resistance to <u>Tomato Spotted Wilt Virus</u>					
	Absent				Montfayet H 63.5	1
	Present				Lisboa	9

VIII Explanations on the Table of characteristics

Ad. / Add. / Zu 37a

Fruit: firmness

Method

Harvesting stage: fruits should be harvested when they are completely red.

Determining firmness: determine by hand the firmness of the fruits compared to the standard varieties

IX. Literature

No specific Literature

IX. Technical questionnaire

	Reference Number (not to be filled in by the applicant)
<p>TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>	
1. Species	<p><i>Lycopersicon lycopersicum (L.) Karsten ex Farw.</i> Tomato</p>
2. Applicant (Name and address)	
3. Proposed denomination or breeder's reference	
4. Information on origin, maintenance and reproduction of the variety	
4.1 Method of maintenance and reproduction	a) vegetative propagation
b) seed propagation	a) hybrid
b) open-pollinated	4.2 Other information

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

Characteristics	Example Varieties	
5.1 Plant: growth type (2)		
determinate	Campbell 1327	1
semi-determinate	Marmande	2
indeterminate	Saint-Pierre	3
5.2 Leaf: division of blade (10)		
pinnate	Pilot, Red Jacket, Mikado	1
bipinnate	Lukullus, Saint-Pierre	2
5.3 Peduncle: abscission layer (18)		
absent	Aledo, Bandera, Count, Lerica	1
present	Montfavet H 63.5, Roma	9
5.4 Fruit: size (20)		
very small	Cerise, Sweet 1000	1
small	Early Mech, Europeel, Roma	3
medium	Alphamech, Diego	5
large	Carmello, Ringo	7
very large	Erlidor, Lydia, Muril	9

Characteristics	Example Varieties	
5.5 Fruit: shape in longitudinal section (22)		
flattened	Campbell 28, Marmande	1
slightly flattened	Montfavet H 63.5, Montfavet H 63.4	2
round	Cerise Moneymaker	3
rectangular	Early Mech, Peto Gro	4
cylindrical	Hypeel 244, Macero II, San Marzano 2	5
heart-shaped	Cobra	6
obovoid	Barbara	7
ovoid	Rimone, Rio Grande	8
pear-shaped	Europeel	9
5.6 Fruit: ribbing at stalk end (23)		
absent or very weak	Cerise	1
weak	Early Mech, Hypeel 244, Melody, Peto Gro, Rio Grande	3
medium	Montfavet H 63.4, Montfavet H 63.5	5
strong	Campbell 1327, Carmello, Count	7
very strong	Marmande	9
5.7 Fruit: predominant number of locules (31)		
two	Early Mech, Europeel, San Marzano	1
two and three	Alphamech, Futuria	2
three and four	Montfavet H 63.5	3
more than four	Carmello, Marmande	4

Characteristics	Example Varieties	
5.8 Fruit: green shoulder (before maturity) (32)		
absent	Rio Grande	1
present	Daniela	9
5.9 Fruit: color of epidermis (36)		
colorless	House Momotaro, White Miraball	1
yellow	Yellow Pear	2
orange	Ferline	3
5.10 Fruit: firmness (37.a)		
very soft	Marmande	1
soft	Trend	3
medium	Cristina	5
firm	Tradiro	7
very firm	Daniela	9
5.11 Time of maturity (39)		
very early	Sungold	1
early	Feria, Rossol	3
medium	Montfavet H 63.5	5
late	Manific, Saint-Pierre	7
very late	Daniela	9

6. Similar varieties and differences between these varieties

Denomination of similar variety	Characteristic in which the similar variety is different ^{o)}	State of expression of similar variety	State of expression of candidate variety

^{o)} In the case of identical states of expressions of both varieties, please indicate the size of the difference.

7. Additional information which may help to distinguish the variety

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

	absent	present	Not tested
- <i>Meloïdogyne incognita</i> (characteristic/caractère/ Merkmal 42)	[]	[]	[]
- <i>Verticillium</i> race/Pathotyp 0 (characteristic/caractère/ Merkmal 43)	[]	[]	[]
- <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> ; Race/Pathotyp 0 (ex 1) (characteristic/caractère/ merkmal 4.1)	[]	[]	[]
Race/Pathotyp 1 (ex 2) (characteristic/caractère/ merkmal 4.2)	[]	[]	[]
- <i>Fusarium oxysporum</i> f. sp. <i>radicis lycopersici</i> (characteristic/caractère/ Merkmal 45)	[]	[]	[]

- Cladosporium fulvum;			
Race/Pathotyp 0 (characteristic/caractère/ merkmal 42)	[]	[]	[]
Group/groupe/Gruppe A (characteristic/caractère/ Merkmal 46.2)	[]	[]	[]
Group/groupe/Gruppe B (characteristic/caractère/ Merkmal 46.3)	[]	[]	[]
Group/groupe/Gruppe C (characteristic/caractère/ Merkmal 46.4)	[]	[]	[]
Group/groupe/Gruppe D (characteristic/caractère/ Merkmal 46.5)	[]	[]	[]
Group/groupe/Gruppe E (characteristic/caractère/ Merkmal 46.6)	[]	[]	[]
-Tomato Mosaic Virus/mosaïque du tomate/ Tomatenmosaikvirus;			
Strain/souche/Pathotyp 0 (characteristic/caractère/ Merkmal 47.1)	[]	[]	[]
Strain/souche/Pathotyp 1 (characteristic/caractère/ Merkmal 47.2)	[]	[]	[]
Strain/souche/Pathotyp 2 (characteristic/caractère/ Merkmal 47.3)	[]	[]	[]
Strain/souche/Pathotyp 1-2 (characteristic/caractère/ Merkmal 47.4)	[]	[]	[]
- Phytophthora infestans (characteristic/caractère/ Merkmal 48)	[]	[]	[]
- Pyrenochaeta lycopersici (characteristic/caractère/ Merkmal 49)	[]	[]	[]
- Stemphylium spp. (characteristic/caractère/ Merkmal 50)	[]	[]	[]
- Pseudomonas tomato (characteristic/caractère/ Merkmal 51)	[]	[]	[]
- Pseudomonas solanacearum race / Pathotyp 1 (characteristic/caractère/ Merkmal 52)	[]	[]	[]
- Tomato Yellow Leaf Curl Virus / Virus des feuilles jaunes en cuillères de la tomate / Gelbes Tomatenblattrollvirus (characteristic/caractère/ Merkmal 53)	[]	[]	[]
Tomato Spotted Wilt Virus (characteristic/caractère/ Merkmal 54)	[]	[]	[]
Others (specify)/Autres (à préciser)/ Andere (angegeben)	[]	[]	[]

7.2 Special conditions for the examination of the variety

i. Type of culture:

under glass []
in the open []

ii. Main use fresh market or garden
industrial processing (indicate type)

iii. Other conditions

7.3 Other information

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to that question is yes, please attach a copy of such an authorization.

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