



TWV/50/19

ORIGINAL: English

DATE: May 31, 2016

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**

Geneva

**TECHNICAL WORKING PARTY FOR VEGETABLES****Fiftieth Session****Brno, Czech Republic, June 27 to July 1, 2016****PARTIAL REVISION OF THE TEST GUIDELINES FOR TOMATO ROOTSTOCKS  
(DOCUMENT TG/294/1 CORR. REV.)***Document prepared by an expert from Spain**Disclaimer: this document does not represent UPOV policies or guidance*

1. The Technical Working Party for Vegetables (TWV), at its forty-ninth session, held in Angers, France, from June 15 to 19, 2015, agreed that the Test Guidelines for Tomato Rootstocks (document TG/294/1 Corr. Rev.) be partially revised for disease resistance characteristics (see document TWV/49/32 Rev. "Revised Report", Annex IV).
2. The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Tomato Rootstocks (document TG/294/1 Corr. Rev.).
3. The following changes are proposed:
  - (a) Extension of the coverage of the Test Guidelines to be reflected
    - (i) on the cover page
    - (ii) in Chapter 1 "Subject of these Test Guidelines"
    - (iii) Chapter "Technical Questionnaire", Section 1 "Subject of the Technical Questionnaire"
  - (b) Addition of a new state of expression and explanation for Characteristic 16
4. The proposed changes are presented below in highlight and underline (insertion) and ~~striketrough~~ (deletion).
5. Comments received on the proposed changes by the Subgroup of Interested Experts and the replies to those comments by the Leading Expert are presented in the Annex to this document.

## EXTENSION OF THE COVERAGE OF THE TEST GUIDELINES

Extension of the coverage of the Test Guidelines on the cover page

Current wording:

<p><b>TOMATO ROOTSTOCKS</b></p> <p>UPOV Code: SOLAN_LHA; SOLAN_LPE; SOLAN_LCH</p> <p><i>Solanum lycopersicum</i> L. x <i>Solanum habrochaites</i> S. Knapp &amp; D.M. Spooner; <i>Solanum lycopersicum</i> L. x <i>Solanum peruvianum</i> (L.) Mill.; <i>Solanum lycopersicum</i> L. x <i>Solanum cheesmaniae</i> (L. Ridley) Fosberg</p>
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Alternative Names:

Botanical name	English	French	German	Spanish
<i>Solanum lycopersicum</i> L. x <i>Solanum habrochaites</i> S. Knapp & D.M. Spooner				
<i>Solanum lycopersicum</i> L. x <i>Solanum peruvianum</i> (L.) Mill.				
<i>Solanum lycopersicum</i> L. x <i>Solanum cheesmaniae</i> (L. Ridley) Fosberg				

Proposed new wording:

<p><b>TOMATO ROOTSTOCKS</b></p> <p>UPOV Code: <u>SOLAN_HAB</u>; SOLAN_LHA; SOLAN_LPE; SOLAN_LCH; <u>SOLAN_PHA</u></p> <p><u><i>Solanum habrochaites</i> S. Knapp &amp; D.M. Spooner;</u> <i>Solanum lycopersicum</i> L. x <i>Solanum habrochaites</i> S. Knapp &amp; D.M. Spooner; <i>Solanum lycopersicum</i> L. x <i>Solanum peruvianum</i> (L.) Mill.; <i>Solanum lycopersicum</i> L. x <i>Solanum cheesmaniae</i> (L. Ridley) Fosberg <u><i>Solanum pimpinellifolium</i> L. x <i>Solanum habrochaites</i> S. Knapp &amp; D.M. Spooner</u></p>
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Alternative Names:

Botanical name	English	French	German	Spanish
<u><i>Solanum habrochaites</i> S. Knapp &amp; D.M. Spooner,</u> <u><i>Lycopersicon agrimoniifolium</i> Dunal,</u> <u><i>Lycopersicon hirsutum</i> Dunal,</u> <u><i>Lycopersicon hirsutum</i> f. <i>glabratum</i> C. H. Müll.</u>				
<i>Solanum lycopersicum</i> L. x <i>Solanum habrochaites</i> S. Knapp & D.M. Spooner				
<i>Solanum lycopersicum</i> L. x <i>Solanum peruvianum</i> (L.) Mill.				
<i>Solanum lycopersicum</i> L. x <i>Solanum cheesmaniae</i> (L. Ridley) Fosberg				
<u><i>Solanum pimpinellifolium</i> L. x</u> <u><i>Solanum habrochaites</i> S. Knapp &amp; D.M. Spooner</u>				

Extension of the coverage of the Test Guidelines in Chapter 1 "Subject of these Test Guidelines"

*Current wording:*

1. Subject of these Test Guidelines

1.1 These Test Guidelines apply to all varieties of *Solanum lycopersicum* L. x *Solanum habrochaites* S. Knapp & D.M. Spooner, *Solanum lycopersicum* L. x *Solanum peruvianum* L. (Mill.) and *Solanum lycopersicum* L. x *Solanum cheesmaniae* (L. Ridley) Fosberg. Such varieties are generally used as rootstocks for tomato varieties (varieties of *Solanum lycopersicum* L. (*Lycopersicum esculentum* L. (Mill.)).

1.2 Rootstocks belonging to *Solanum lycopersicum* L. (*Lycopersicum esculentum* Mill.) or to *Solanum lycopersicum* L. x *Solanum pimpinellifolium* L. (*Lycopersicum esculentum* Mill. x *Lycopersicum pimpinellifolium* Mill.) should be covered by UPOV Test Guidelines TG/44.

*Proposed new wording:*

1. Subject of these Test Guidelines

1.1 These Test Guidelines apply to all varieties of *Solanum habrochaites* S. Knapp & D.M. Spooner; *Solanum lycopersicum* L. x *Solanum habrochaites* S. Knapp & D.M. Spooner, *Solanum lycopersicum* L. x *Solanum peruvianum* L. (Mill.), and *Solanum lycopersicum* L. x *Solanum cheesmaniae* (L. Ridley) Fosberg and *Solanum pimpinellifolium* L. x *Solanum habrochaites* S. Knapp & D.M. Spooner. Such varieties are generally used as rootstocks for tomato varieties (varieties of *Solanum lycopersicum* L. (*Lycopersicum esculentum* L. (Mill.)).

1.2 Rootstocks belonging to *Solanum lycopersicum* L. (*Lycopersicum esculentum* Mill.) or to *Solanum lycopersicum* L. x *Solanum pimpinellifolium* L. (*Lycopersicum esculentum* Mill. x *Lycopersicum pimpinellifolium* Mill.) should be covered by UPOV Test Guidelines TG/44.

Extension of the coverage of the Test Guidelines Chapter “Technical Questionnaire”, Section 1 “Subject of the Technical Questionnaire”

Current wording:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p>TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>		
<p>1. Subject of the Technical Questionnaire</p> <p>Tomato Rootstocks belonging to:</p> <p>1.1 Botanical name <input type="text" value="Solanum lycopersicum L. x Solanum habrochaites S. Knapp &amp; D.M. Spooner"/> [...]</p> <p>1.2 Botanical name <input type="text" value="Solanum lycopersicum L. x Solanum peruvianum (L.) Mill."/> [...]</p> <p>1.3 Botanical name <input type="text" value="Solanum lycopersicum L. x Solanum cheesmaniae (L. Ridley) Fosberg"/> [...]</p>		

Proposed new wording:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
<p>TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>		
<p>1. Subject of the Technical Questionnaire</p> <p>Tomato Rootstocks belonging to:</p> <p><u>1.1</u> Botanical name <input type="text" value="Solanum habrochaites S. Knapp &amp; D.M. Spooner"/> [...]</p> <p>1.<del>1</del><u>2</u> Botanical name <input type="text" value="Solanum lycopersicum L. x Solanum habrochaites S. Knapp &amp; D.M. Spooner"/> [...]</p> <p>1.<del>2</del><u>3</u> Botanical name <input type="text" value="Solanum lycopersicum L. x Solanum peruvianum (L.) Mill."/> [...]</p> <p>1.<del>3</del><u>4</u> Botanical name <input type="text" value="Solanum lycopersicum L. x Solanum cheesmaniae (L. Ridley) Fosberg"/> [...]</p> <p><u>1.5</u> Botanical name <input type="text" value="Solanum pimpinellifolium L. x Solanum habrochaites S. Knapp &amp; D.M. Spooner"/> [...]</p>		

Addition of a new state of expression and explanation to Characteristic 16

*Current Wording:*

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>16. VG</b>	<b>Fruit: size</b>	<b>Fruit : taille</b>	<b>Frucht: Größe</b>	<b>Fruto: tamaño</b>		
<b>(*)</b>						
<b>QN</b>	<b>(b)</b> small	petit	klein	pequeño	Body, Optifort	3
	medium	moyen	mittel	medio	Emperador	5
	large	grand	groß	grande	Titron	7

*Proposed new wording:*

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>16. VG</b>	<b>Fruit: size</b>	<b>Fruit : taille</b>	<b>Frucht: Größe</b>	<b>Fruto: tamaño</b>		
<b>(*)</b>						
<b>(+)</b>						
<b>QN</b>	<b>(b)</b> <u>null or very small</u>			<u>nulo o muy pequeño</u>	<u>RT303</u>	<u>1</u>
	small	petit	klein	pequeño	Body, Optifort	3
	medium	moyen	mittel	medio	Emperador	5
	large	grand	groß	grande	Titron	7

Ad. 16: Fruit: size

Varieties of certain interspecific crosses for tomato rootstocks, may have not viability for production of fruits, or exceptionally produce few very small fruits.



Scarce fruits of very small size produced by RT303

Scale of the photo: length of the squares: 1 cm

[Annex follows]

ANNEX

COMMENTS RECEIVED ON THE PROPOSED CHANGES BY THE SUBGROUP OF INTERESTED EXPERTS

European Union:

I am in favor of your proposals and do not have any further remarks to make.

Netherlands

We agree partly with your proposal but have also some comments on it.

1. Last 2 years we had an application for the species *Solanum habrochaites* (a parent line of an interspecific cross hybrid). We think this species could also be described with and thus included in this protocol as well and would like therefore to add also the species *Solanum habrochaites* S. Knapp & D.M. Spooner in this partial revision.

*Leading Expert: O.K. Included in the draft*

2. We think that the new expression of note 1 should be “very small” instead of “null or very small”. In case certain interspecific crosses for tomato rootstocks, may have not viability for production of fruits, or exceptionally produce few very small fruits, we think that it is a better solution to include in the description an N or X than to add null to the expression.

*Leading Expert: I admit that may seem peculiar the expression null or very small, but it reflects the real situation. I think it is a new situation in the TGs. We can discuss the best solution.*

3. Furthermore the fruit size of the lines and accessions of the species the *Solanum habrochaites* is considered as 1. very small (in our trials prox. 5 to 7 grams). If this is the same as your variety/application RT303 we agree with the scale. If it is much smaller, could it be that RT303 should have the expression 2 and the *Solanum habrochaites* lines expression 1? What is the fruit size of RT303?

*Leading Expert: The size of fruit of RT303 (when exists) is between 1 and 2 grs much smaller than any other actual variety. The 5 grs weight, for us is assessed as note 3 in this crop. A photo is added to the explanation.*

4. Is RT303 the denomination of your *Solanum pimpinellifolium* L.x *Solanum habrochaites* S. Knapp & D.M. Spooner application or is it still the breeders' reference? In that case this variety cannot be added with this reference in the draft.

*Leading Expert: RT303 is the name indicated in the application and reported to national list. I will check if there is any further proposal for change it before to appear in the common catalogue.*

[End of document]