



TWF/40/15

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

**TECHNICAL WORKING PARTY FOR FRUIT CROPS**

**Fortieth Session**

**Angers, France, September 21 to 25, 2009**

**PROPOSAL FOR A PARTIAL REVISION OF THE TEST GUIDELINES FOR  
MANDARIN (CITRUS GROUP 1)**

*Document prepared by an expert from Spain*

1. The Test Guidelines for Mandarin (document TG/201/1) were adopted in 2003. However, there have been applications for new types of mandarin varieties which are not adequately covered by the current Test Guidelines. To address those new types, it is proposed that there be a partial revision of the Test Guidelines in order to update characteristic 25 "Anther: viable pollen", and to add a new characteristic.
2. At present, characteristic 25 "Anther: percentage of viable pollen" has two states of expression, "absent" or "present". Differences observed in the pollen germination percentage cannot be reflected with only two states. This characteristic supposes one of the main targets in the new international improvement programs in citrus fruits. It is proposed that the states "absent" or "present" be substituted by a more detailed classification.
3. Given the use of the new methods to obtain new citrus varieties and as a consequence of the new applications for varieties with reduced fertility, it is necessary to introduce a new characteristic to evaluate the ovule fertility by cross-pollination with another variety or species. This method avoids the presence of seeds in certain new, irradiated varieties and in existing varieties on the market.

4. Therefore, it is proposed to make the following update to the Test Guidelines:

*Chapter VII. Table of Characteristics*

Current wording

25.	<b>Anther: viable pollen</b>	<b>Anthère: pollen viable</b>	<b>Anthere: keimfähiger Pollen</b>	<b>Antera: polen viable</b>		
<b>QL</b>	(b) absent	absent	fehlend	ausente	Owari (SAT)	1
[239]	present	présent	vorhanden	presente		9

Proposed new wording

25.	<b>Anther: viable pollen</b>	<b>Anthère: pollen viable</b>	<b>Anthere: keimfähiger Pollen</b>	<b>Antera: polen viable</b>		
<b>QN</b>	(b) absent or very low	absent ou très faible	fehlend oder sehr gering	ausente o muy bajo	Owari (SAT)	1
	low	faible	gering	bajo		3
	medium	moyen	mittel	medio	Marisol (CLE)	5
	high	élevé	hoch	alto		7
[239]	very high	très élevé	sehr hoch	muy alto	Fortune (HMA)	9

Proposed new characteristic

NEW (after 98.) (+)	<b>Fruit: number of seeds (controlled manual cross-pollination)</b>	<b>Fruit: nombre de pépins (allogamie manuelle contrôlée)</b>	<b>Frucht: Anzahl Samen (manuelle kontrollierte Fremdbefruchtung)</b>	<b>Fruto: número de semillas (alógama manual controlada)</b>		
<b>QN</b>	(c) absent or very few	absents ou très peu nombreux	fehlend oder sehr gering	ausentes o muy bajo	Nulesin (CLE), Tango (HMA)	1
	few	peu nombreux	gering	bajo		3
	medium	moyen	mittel	medio	Marisol (CLE)	5
	many	nombreux	groß	alto		7
[325]	very many	très nombreux	sehr groß	muy alto	Clemenules (CLE)	9

5. The changes to the Test Guidelines for Mandarin would also need to be reflected in the overall Table of Characteristics (Annex to TG/83/4, TG/201/1, TG/202/1, TG/203/1, TG/204/1):

	Group/Groupe/Gruppe/Grupo					English	français	deutsch	español	Note/Nota
	1	2	3	4	5					
<b>239.</b>	25	26	29	30	37	<b>Anther: viable pollen</b>	<b>Anthère: pollen viable</b>	<b>Anthere: keimfähiger Pollen</b>	<b>Antera: polen viable</b>	
<b>QL</b>						absent	absent	fehlend	ausente	1
						present	présent	vorhanden	presente	9

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