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

Geneva

DRAFT

## TRIFOLIATE ORANGE

UPOV Code(s): PONCI\_TRI

*Citrus trifoliata* L.

## GUIDELINES

## FOR THE CONDUCT OF TESTS

## FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from Spain  
to be considered by the  
Technical Working Party for Fruit Crops  
at its fifty-third session, to be held virtually,  
from 2022-07-11 to 2022-07-15*

*Disclaimer: this document does not represent UPOV policies or guidance*

Alternative names:\*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Citrus trifoliata</i> L.	Trifoliolate Orange		Dreiblättrige Orange	Naranjo trifoliado

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

## ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

\* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website ([www.upov.int](http://www.upov.int)), for the latest information.]

To be reviewed:

GROUP 5 – ALTERNATIVE NAMES AND CORRESPONDING SUBGROUPS\*

<i>Latin</i>	<i>Sub-group</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Citrus clementina</i> Hort. ex Tan. x <i>Poncirus trifoliata</i> (L.) Raf.	HPO	Citrentin	Citrentin		
<i>Citrus limon</i> (L.) Burm. x <i>Poncirus trifoliata</i> (L.) Raf.	CTL	Citremon	Citremon		
<i>Citrus paradisi</i> Macf. x <i>Poncirus trifoliata</i> (L.) Raf.	CML	Citrumelo	Citrumelo		
<i>Citrus reticulata</i> Blanco x <i>Poncirus trifoliata</i> (L.) Raf.	CTI	Citrandarín	Citrandarín		
<i>Citrus sinensis</i> (L.) Osb. x <i>Poncirus trifoliata</i> (L.) Raf.	CTG	Citrangé	Citrangé		
<i>Fortunella</i> sp. x <i>Poncirus trifoliata</i> (L.) Raf.	HPO	Citrumquat	Citrumquat		
<i>Poncirus polyandra</i> S. Q. Ding et al.	PON				
<i>Poncirus trifoliata</i> (L.) Raf.	PON	Golden Apple, Trifoliolate Orange	Oranger trifolié	Dreiblättrige Orange, Dreiblättrige Bitterorange	Naranjo trifoliado

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Citrus trifoliata* L.

2. Material Required

3. Method of Examination

4. Assessment of Distinctness, Uniformity and Stability

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.2.2 All relevant states of expression are presented in the characteristic.

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

### 6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

### 6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

### 6.5 *Legend*

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1	2	3	4	5	6	7	
		Name of characteristics in English	Nom du caractère en français	Name des Merkmals auf Deutsch	Nombre del carácter en español		
		states of expression	types d'expression	Ausprägungsstufen	tipos de expresión		

1 Characteristic number

2 (\*) Asterisked characteristic – see Chapter 6.1.2

3 Type of expression  
 QL Qualitative characteristic – see Chapter 6.3  
 QN Quantitative characteristic – see Chapter 6.3  
 PQ Pseudo-qualitative characteristic – see Chapter 6.3

4 Method of observation (and type of plot, if applicable)  
 MG, MS, VG, VS – see Chapter 4.1.5

5 (+) See Explanations on the Table of Characteristics in Chapter 8.1

6 Not applicable

7 Not applicable

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

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>1. (*)</b>	<b>PQ</b>					
	<b>Tree: growth habit</b>					
	upright				Benecke (PON)	1
	spreading				CPB 4475 (CML)	2
	drooping					3
<b>2. (*)</b>	<b>QN VG</b>					
	<b>Tree: density of spines</b>					
	absent				C-35 (CTG)	1
	sparse					2
	intermediate					3
	dense					4
<b>3. (*)</b>	<b>QN VG</b>					
	<b>Tree: length of spines</b>					
	short				CPB 4475 (CML)	3
	medium					5
	long				Benecke (PON)	7
<b>4. (*)</b>	<b>QL VG</b>					
	<b>Young leaf: presence of antho-cyanin coloration</b>					
	absent				Troyer (CTG)	1
	present				Forner Alcaide 5 (CTI)	3
<b>5. (*)</b>	<b>QN VG</b>					
	<b>Young leaf: intensity of anthocyanin coloration</b>					
	weak					3
	medium					5
	strong					7
<b>6. (*)</b>	<b>PQ</b>					
	<b>Leaf: caducity</b>					
	perennial				CPB 4475 (CML)	1
	partially caducous				Troyer (CTG)	2
	caducous				Benecke (PON)	3

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>7. (*)</b>	<b>PQ</b>	<b>VG</b>				
	<b>Leaf: number of leaflets</b>					
	one only					1
	variable				Troyer (CTG)	2
	mostly three				Benecke (PON)	3
<b>8.</b>	<b>QN</b>	<b>MS</b>				
	<b>Leaf blade: length (apical leaflet in case of compound leaf)</b>					
	short					3
	medium				Troyer (CTG)	5
	long				CPB 4475 (CML)	7
<b>9.</b>	<b>QN</b>					
	<b>Leaf blade: width (as for 9)</b>					
	narrow					3
	medium					5
	broad					7
<b>10</b>	<b>QN</b>	<b>MS</b>				
	<b>Leaf blade: ratio length/width (as for 9)</b>					
	small				Benecke (PON)	3
	medium				C-35 (CTG)	5
	large					7
<b>11</b>	<b>QN</b>	<b>MS</b>				
	<b>Leaf blade: length (lateral leaflet in case of compound leaf)</b>					
	short					3
	medium				Troyer (CTG)	5
	long				CPB 4475 (CML)	7

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>12</b>	<b>QN</b>					
	<b>Leaf blade: width (as for 12)</b>					
	narrow					3
	medium					5
	broad					7
<b>13</b>	<b>QN MS</b>					
	<b>Leaf blade: ratio length/width (as for 12)</b>					
	small				Benecke (PON)	3
	medium					5
	large				CPB 4475 (CML)	7
<b>14</b>	<b>QN</b>					
	<b>Leaf blade: ratio length of blade of apical leaflet/length of blade of lateral leaflet</b>					
	small					3
	medium					5
	large					7
<b>15</b>	<b>QN</b>					
	<b>Leaf blade: shape in cross section (as for 9)</b>					
	straight or weakly concave					1
	intermediate					2
	strongly concave					3
<b>16</b>	<b>QN</b>					
	<b>Leaf blade: twisting</b>					
	absent or weak					1
	intermediate					2
	strong					3



	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>17</b>	<b>QN</b>					
	<b>Leaf blade: blistering</b>					
	absent or weak					1
	intermediate					2
	strong					3
<b>18</b>	<b>QN</b>					
	<b>Leaf blade: green color</b>					
	light					3
	medium					5
	dark					7
<b>19</b>	<b>QN</b>					
	<b>Leaf blade: undulation of margin</b>					
	absent or weak					1
	intermediate					2
	strong					3
<b>20 (*)</b>	<b>PQ</b>	<b>VG</b>				
	<b>Leaf blade: incisions of margin</b>					
	absent				C-35 (CTG)	1
	present				CPB 4475 (CML)	9
<b>21 (*)</b>	<b>PQ</b>	<b>VG</b>				
	<b>Leaf blade: shape of apex</b>					
	acuminate					1
	acute				Carrizo (CTG)	2
	obtuse					3
	rounded				C-35 (CTG)	4
<b>22</b>	<b>QL</b>	<b>VG</b>				
	<b>Leaf blade: emargination at tip</b>					
	absent				CPB 4475 (CML)	1
	present				C-35 (CTG)	9

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
23	QN					
	<b>Petiole: length</b>					
	short					3
	medium					5
	long					7
24 (*)	QL	VG				
	<b>Petiole: presence of wings</b>					
	absent				CPB 4475 (CML)	1
	present				Carrizo (CTG)	9
25	QN					
	<b><u>Varieties with petiole wings present only:</u> Petiole: width of wings</b>					
	narrow					3
	medium					5
	broad					7
26	QL	VG				
	<b>Flower bud: presence of anthocyanin coloration</b>					
	absent				C-35 (CTG)	1
	present				Flying Dragon (PON)	9
27	QN					
	<b>Flower bud: intensity of anthocyanin coloration</b>					
	weak					3
	medium					5
	strong					7
28	QN	MS				
	<b>Flower: diameter of calyx</b>					
	small					3
	medium				Troyer (CTG)	5
	large				CPB 4475 (CML)	7

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>29</b>	<b>QN MS</b>					
	<b>Flower: length of petal</b>					
	short					3
	medium				Fornier Alcaide 5 (CTI)	5
	long				Troyer (CTG)	7
<b>30</b>	<b>QN</b>					
	<b>Flower: width of petal</b>					
	narrow					3
	medium					5
	broad					7
<b>31</b>	<b>QN</b>					
	<b>Flower: ratio length/ width of petal</b>					
	small					3
	medium					5
	large					7
<b>32</b>	<b>QN</b>					
	<b>Flower: length of stamens</b>					
	short					3
	medium					5
	long					7
<b>33</b>	<b>QL</b>					
	<b>Stamen: color of filament</b>					
	white				Carrizo (CTG)	1
	pink				Fornier Alcaide 13 (CTI)	2
<b>34</b>	<b>PQ</b>					
	<b>Anther: color</b>					
	white					1
	light yellow					2
	medium yellow					3

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>35</b>	<b>QL VS</b>					
	<b>Anther: pollen viability</b>					
	absent or low					1
	medium				Benecke (PON)	2
	high				CPB 4475 (CML)	3
<b>36</b>	<b>QN</b>					
	<b>Style: length</b>					
	short					3
	medium					5
	long					7
<b>37</b>	<b>QL VG</b>					
	<b>Ovary: pubescence</b>					
	absent				Forner Alcaide 5 (CTI)	1
	present				Benecke (PON)	9
<b>38 (*)</b>	<b>QN MS</b>					
	<b>Fruit: length</b>					
	short				Forner Alcaide 5 (CTI)	3
	medium					5
	long				C-35 (CTG)	7
<b>39</b>	<b>QN MS</b>					
	<b>Fruit: diameter</b>					
	small				Forner Alcaide 5 (CTI)	3
	medium					5
	large				C-35 (CTG)	7
<b>40</b>	<b>QN</b>					
	<b>Fruit: ratio length/diameter</b>					
	small					3
	medium					5
	large					7

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>41</b>	<b>QN</b>					
	<b>Fruit: position of broadest part</b>					
	towards stalk end					1
	at middle					2
	towards distal end					3
<b>42</b>	<b>PQ MS</b>					
	<b>Fruit: shape in transverse section</b>					
	circular				Benecke (PON)	1
	somewhat angular				CPB 4475 (CML)	2
	scalloped					3
<b>43</b>	<b>PQ</b>					
	<b>Fruit: general shape of proximal part (excluding neck, collar and depression at stalk end)</b>					
	flattened					1
	slightly rounded					2
	strongly rounded					3
	tapered					4
<b>44</b>	<b>QL VG</b>					
	<b>Fruit: presence of neck</b>					
	absent				Carrizo (CTG)	1
	present				CPB 4475 (CML)	9
<b>45</b>	<b>QN</b>					
	<b>Necked varieties only: Fruit: length of neck</b>					
	short					3
	medium					5
	long					7

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>46</b>	<b>QN</b>					
	<b><u>Necked varieties only:</u></b> <b>Fruit: thickness of neck</b>					
	thin					3
	medium					5
	thick					7
<b>47</b>	<b>QL</b>					
	<b><u>Only varieties without fruit neck:</u></b> Fruit: presence of depression at stalk end					
	absent					1
	present					9
<b>48</b>	<b>QN</b>					
	<b><u>Only varieties without fruit neck:</u></b> Fruit: depth of depression at stalk end					
	shallow					3
	medium					5
	deep					7
<b>49</b>	<b>QL</b>					
	<b>Fruit: presence of constriction at stalk end</b>					
	absent					1
	present					9
<b>50</b>	<b>QN</b>					
	<b>Fruit: expression of constriction at stalk end</b>					
	weak					3
	medium					5
	strong					7

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>51</b>	<b>QN MS</b>					
	<b>Fruit: number of radial grooves at stalk end</b>					
	absent or few				Carrizo (CTG)	1
	intermediate				CPB 4475 (CML)	2
	many					3
<b>52</b>	<b>QN MS</b>					
	<b>Fruit: length of radial grooves at stalk end</b>					
	short				CPB 4475 (CML)	3
	medium					5
	long				Benecke (PON)	7
<b>53</b>	<b>QN</b>					
	<b><u>Necked varieties only:</u> Fruit: depression at stalk attachment</b>					
	absent or shallow					1
	intermediate					2
	deep					3
<b>54</b>	<b>QL</b>					
	<b>Fruit: presence of collar</b>					
	absent					1
	present					9
<b>55</b>	<b>QN</b>					
	<b>Fruit: abscission layer between floral disc and fruit</b>	<b>Fruit : abscission entre le disque floral et le fruit</b>	<b>Frucht: Trennschicht zwischen Blütenscheibe und Frucht</b>	<b>Fruto: capa de abscisión entre el disco floral y el fruto</b>		
	absent or weakly developed					1
	intermediate					2
	strongly developed					3

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
56	QN VG					
	<b>Fruit: general shape of distal part (excluding nipple, bulging of navel and depression at distal end)</b>	<b>Fruit : forme générale de la partie distale (à l'exclusion du mamelon, de la courbure du fruit secondaire et de la dépression à l'extrémité distale)</b>	<b>Frucht: allgemeine Form des distalen Teils (ohne Warze, Wölbung der sekundären Frucht und Einsenkung am distalen Ende)</b>	<b>Fruto: forma general de la parte distal (excluidos el mamelón o pezón, el abultamiento del ombligo y la depresión en el extremo distal)</b>		
	flattened				Fornier Alcaide 5 (CTI)	1
	slightly rounded				CPB 4475 (CML)	2
	strongly rounded					3
57	QL					
	<b>Fruit: presence of depression at distal end</b>	<b>Fruit : présence d'une dépression à l'extrémité distale</b>	<b>Frucht: Vorhandensein einer Einsenkung am distalen Ende</b>	<b>Fruto: presencia de una depresión en el extremo distal</b>		
	absent					1
	present					9
58	QN					
	<b>Fruit: depth of depression at distal end</b>	<b>Fruit : profondeur de la dépression à l'extrémité distale</b>	<b>Frucht: Tiefe der Einsenkung am distalen Ende</b>	<b>Fruto: profundidad de la depresión en el extremo distal</b>		
	shallow					3
	medium					5
	deep					7
59 (*)	QL					
	<b>Fruit: presence of nipple</b>	<b>Fruit : présence d'un mamelon</b>	<b>Frucht: Vorhandensein einer Warze</b>	<b>Fruto: presencia de un mamelón o pezón</b>		
	absent					1
	present					9
60	QN					
	<b>Fruit: prominence of nipple</b>	<b>Fruit : proéminence du mamelon</b>	<b>Frucht: Herausragen der Warze</b>	<b>Fruto: prominencia del mamelón o pezón</b>		
	weak					3
	medium					5
	strong					7



	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>61</b>	<b>QL</b>					
	<b>Fruit: presence of areola</b>	<b>Fruit : présence d'une aréole</b>	<b>Frucht: Vorhandensein einer Areola</b>	<b>Fruto: presencia de un areola</b>		
	absent					1
	incomplete					2
	complete					3
<b>62</b>	<b>QL</b>					
	<b>Fruit: type of areola</b>	<b>Fruit : type d'aréole</b>	<b>Frucht: Typ der Areola</b>	<b>Fruto: tipo de areola</b>		
	smooth					1
	grooved					2
	ridged					3
<b>63</b>	<b>QN</b>					
	<b>Fruit: diameter of areola</b>	<b>Fruit : diamètre de l'aréole</b>	<b>Frucht: Durchmesser der Areola</b>	<b>Fruto: diámetro de la areola</b>		
	small					3
	medium					5
	large					7
<b>64</b>	<b>PQ</b>					
	<b>Fruit: persistence of style</b>	<b>Fruit : persistance du style</b>	<b>Frucht: Persistenz des Griffels</b>	<b>Fruto: persistencia del estilo</b>		
	none					1
	partial					2
	total					3
<b>65</b>	<b>QL</b>	<b>VG</b>				
	<b>Fruit: presence of radial grooves at distal end</b>	<b>Fruit : présence de cannelures radiales à l'extrémité distale</b>	<b>Frucht: Vorhandensein radialer Furchen am distalen Ende</b>	<b>Fruto: presencia de acanaladuras radiales en el extremo distal</b>		
	absent				Troyer (CTG)	1
	present					9

	English		français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>66</b>	<b>PQ</b>	<b>VG</b>					
	<b>Fruit surface: predominant color(s)</b>	<b>Surface du fruit : couleur(s) prédominante(s)</b>	<b>Fruchtoberfläche: Hauptfarbe(n)</b>	<b>Superficie del fruto: color(es) predominante(s)</b>			
	green						1
	yellow green						2
	green and yellow						3
	light yellow						4
	medium yellow					Benecke (PON)	5
	yellow orange						6
	medium orange					Fomer Alcaide 5 (CTI)	7
	dark orange						8
	green and orange						9
	yellow and orange						10
	orange red						11
	yellow and red						12
	orange and red						13
<b>67</b>	<b>(*) QL</b>	<b>VG</b>					
	<b>Fruit surface: presence of pubescence</b>	<b>Surface du fruit : présence de pilosité</b>	<b>Fruchtoberfläche: Vorhandensein der Behaarung</b>	<b>Superficie del fruto: presencia de pubescencia</b>			
	absent					CPB 4475 (CML)	1
	present					Benecke (PON)	9
<b>68</b>	<b>(*) QN</b>						
	<b>Fruit surface: intensity of pubescence</b>	<b>Surface du fruit : intensité de la pilosité</b>	<b>Fruchtoberfläche: Intensität der Behaarung</b>	<b>Superficie del fruto: intensidad de la pubescencia</b>			
	weak						3
	medium						5
	strong						7
<b>69</b>	<b>QN</b>	<b>VG</b>					
	<b>Fruit surface: roughness</b>	<b>Surface du fruit : rugosité</b>	<b>Fruchtoberfläche: Rauheit</b>	<b>Superficie del fruto: rugosidad</b>			
	smooth					C-35 (CTG)	3
	medium					CPB 4475 (CML)	5
	rough					Benecke (PON)	7

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>70</b>	<b>QN</b>					
	<b>Fruit surface: size of larger oil glands</b>	<b>Surface du fruit : taille des glandes à huile les plus grosses</b>	<b>Fruchtoberfläche: Größe der größeren Öldrüsen</b>	<b>Superficie del fruto: tamaño de las glándulas de aceite más grandes</b>		
	small					3
	medium					5
	large					7
<b>71</b>	<b>QN</b>					
	<b>Fruit surface: conspicuousness of larger oil glands</b>	<b>Surface du fruit : netteté des glandes à huile les plus grosses</b>	<b>Fruchtoberfläche: Sichtbarkeit der größeren Öldrüsen</b>	<b>Superficie del fruto: visibilidad de las glándulas de aceite más grandes</b>		
	weak					3
	medium					5
	strong					7
<b>72</b>	<b>QL</b>	<b>VG</b>				
	<b>Fruit rind: thickness</b>	<b>Écorce du fruit : épaisseur</b>	<b>Fruchtschale: Dicke</b>	<b>Corteza del fruto: espesor</b>		
	thin					3
	medium					5
	thick				CPB 4475 (CML)	7
<b>73</b>	<b>QN</b>					
	<b>Fruit rind: adherence to flesh</b>					
	weak					3
	medium					5
	strong					7
<b>74</b>	<b>PQ</b>	<b>VG</b>				
	<b>Fruit: color of albedo</b>					
	greenish					1
	white				Troyer (CTG)	2
	light yellow					3
	light orange					4
	pink					5
	reddish					6

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>75</b>	<b>PQ</b>					
	<b>Fruit: main color of flesh</b>					
	whitish					1
	light green					2
	light yellow					3
	medium yellow					4
	light orange					5
	medium orange					6
	dark orange					7
	red					8
	purple					9
	yellow and red					10
<b>76</b>	<b>QN</b>	<b>VG</b>				
	<b>Fruit: filling of core</b>					
	absent or very sparse					1
	sparse					3
	medium				Fomer Alcaide 5 (CTI)	5
	dense					7
	very dense				Troyer (CTG)	9
<b>77</b>	<b>QN</b>	<b>MS</b>				
	<b>Fruit: number of well developed segments</b>					
	few					3
	medium				Benecke (PON)	5
	many				Carrizo (CTG)	7
<b>78</b>	<b>PQ</b>					
	<b>Fruit: presence of navel (viewed internally)</b>					
	absent or very rare					1
	occasionally present					2
	always present					3

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>79</b>	<b>QN</b>	<b>MG</b>				
	<b>Fruit: juiciness</b>					
	low				Benecke (PON)	3
	medium				CPB 4475 (CML)	5
	high				C-35 (CTG)	7
<b>80</b>	<b>QN</b>	<b>(+)</b>				
	<b>Fruit: number of seeds (open pollination)</b>					
	absent or very few					1
	few					3
	medium					5
	many					7
<b>81 (*)</b>	<b>QL</b>					
	<b>Seed: polyembryony</b>					
	absent					1
	present					9
<b>82</b>	<b>QN</b>					
	<b>Seed: length</b>					
	short					3
	medium					5
	long					7
<b>83</b>	<b>QN</b>					
	<b>Seed: width</b>					
	narrow					3
	medium					5
	broad					7
<b>84</b>	<b>PQ</b>					
	<b>Seed: external color</b>					
	greenish					1
	whitish					2
	yellowish					3
	pinkish					4
	brownish					5

	English	français	deutsch	español	Example Varieties Exemples Bei ejemplo	Note/
<b>85</b>	<b>PQ</b>					
	<b>Only varieties with seed: polyembryony present: Seed: color of cotyledons</b>					
	white					1
	cream					2
	light green					3
	dark green					4
<b>86 (*)</b>	<b>QL</b>					
	<b>Flowering habit</b>					
	flowering once					1
	flowering more than once					2
<b>87</b>	<b>QN</b>					
	<b>Time of maturity of fruit for consumption</b>					
	early					3
	medium					5
	late					7
<b>88</b>	<b>QL</b>					
	<b>Plant: self- incompatibility</b>					
	absent					1
	present					9

8.1 *Explanations for individual characteristics*

Ad. 80: Fruit: number of seeds (open pollination)

Ad. 101 ([326]): Fruit: number of seeds (open pollination)

Open pollination means natural pollination between trees of any variety.

9. Literature



10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1	Botanical name	<input type="text" value="Citrus trifoliata L."/>
1.2	Common name	<input type="text" value="Trifoliata Orange"/>
2. Applicant		
	Name	<input type="text"/>
	Address	<input type="text"/>
	Telephone No.	<input type="text"/>
	Fax No.	<input type="text"/>
	E-mail address	<input type="text"/>
	Breeder (if different from applicant)	<input type="text"/>
3. Proposed denomination and breeder's reference		
	Proposed denomination (if available)	<input type="text"/>
	Breeder's reference	<input type="text"/>

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross

(b) partially known cross

(please state known parent variety(ies))

(.....) x (.....)

female parent male parent

(c) unknown cross

4.1.2 Mutation   
(please state parent variety)

4.1.3 Discovery and development   
(please state where and when discovered and how developed)

4.1.4 Other   
(Please provide details)

# Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2	Method of propagating the variety	
4.2.1	Other (Please provide details)	[ ]
	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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
<b>5.1 Leaf: caducity (6)</b>		
perennial	CPB 4475 (CML)	1 [ ]
partially caducous	Troyer (CTG)	2 [ ]
caducous	Benecke (PON)	3 [ ]
<b>5.2 Leaf: number of leaflets (7)</b>		
one only		1 [ ]
variable	Troyer (CTG)	2 [ ]
mostly three	Benecke (PON)	3 [ ]
<b>5.3 Fruit surface: presence of pubescence (67)</b>		
absent	CPB 4475 (CML)	1 [ ]
present	Benecke (PON)	9 [ ]
<b>5.4 Seed: polyembryony (81)</b>		
absent		1 [ ]
present		9 [ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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6. Similar varieties and differences from these varieties

*Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.*

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>			
Comments:			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes  No

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes  No

(If yes, please provide details)

7.3 Other information

Virus status

The plant material is virus-free

The plant material is virus tested

(indicate against which viruses: ..... )

..... )

The virus status is unknown

# Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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 (b) is yes, please attach a copy of the authorization.

9. Information on plant material to be examined or submitted for examination

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- |     |   |         |        |
|-----|---|---------|--------|
| (a) | Microorganisms (e.g. virus, bacteria, phytoplasma)    | Yes [ ] | No [ ] |
| (b) | Chemical treatment (e.g. growth retardant, pesticide) | Yes [ ] | No [ ] |
| (c) | Tissue culture  | Yes [ ] | No [ ] |
| (d) | Other factors   | Yes [ ] | No [ ] |

Please provide details for where you have indicated "yes".

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date

[End of document]