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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

FENNEL*

UPOV Code(s):

FOENI_VUL

Foeniculum vulgare Mill.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from the Netherlands
to be considered by the
Technical Working Party for Vegetables
at its fifty-third session, to be held in Seoul, Republic of Korea,
from 2019-05-20 to 2019-05-24

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	*English*	*French*	*German*	*Spanish*
Foeniculum vulgare Mill., *Foeniculum officinale* All, *Foeniculum vulgare* Mill. subsp. *vulgare* var. *azoricum* (Mill.) hell., *Foeniculum vulgare* Mill. subsp. *vulgare* var. *dulce* (Mill.) Batt.	Fennel, Florence fennel, Sweet fennel	Fenouil, Fenouil doux	Fenchel, Gemüsefenchel, Gewürzfenchel	Hinojo

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.

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Foeniculum vulgare* Mill.

Excluding bitter fennel (*Foeniculum vulgare* Mill. ssp. *piperitum* (Ucria) Cout.).

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of seed.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

4,000 seeds

The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 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 it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 Number of Growing Cycles

3.1.1 The minimum duration of tests should normally be two independent growing cycles.

3.1.2 The two independent growing cycles should be in the form of two separate plantings.

3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 “Examining Distinctness”.

3.3 Conditions for Conducting the Examination

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 60 plants, which should be divided between at least 2 replicates.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 Additional Tests

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 Distinctness

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts of plants taken from each of 20 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 “Examining Distinctness”, Section 4 “Observation of characteristics”):

MG: single measurement of a group of plants or parts of plants
MS: measurement of a number of individual plants or parts of plants
VG: visual assessment by a single observation of a group of plants or parts of plants
VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

“Visual” observation (V) is an observation made on the basis of the expert’s judgment. For the purposes of this document, “visual” observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, “G” provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 Uniformity

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 These Test Guidelines have been developed for the examination of seed-propagated varieties. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.

4.2.3 The assessment of uniformity for open pollinated varietes should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.2.4 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction.

4.2.5 For the assessment of uniformity of hybrid varieties, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 60 plants, 3 off-types are allowed.

4.3 Stability

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

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:

(a) Plant: grumolo formation (characteristic 2)
(b) Foliage: color (characteristic 6)
(c) Only varieties with grumolo: bolting tendency (characteristic 21)
(d) Male sterility (characteristic 26)

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 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	*Note*
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	*Note*
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

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 8.2

6 (a) See Explanations on the Table of Characteristics in Chapter 8.1

7 Not applicable

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

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.		**QN MS/VG**					
		Only varieties without grumolo: Young plant: length of cotyledons					
		short				Foenimed	3
		medium				Chumen	5
		long				Magnafena	7
2.	**(*)**	**QL VG**	**(+)** **(a)**				
		Plant: grumolo formation					
		absent				Berfena, Duitse	1
		present				Fino	9
3.		**QN MS/VG**					
		Only varieties without grumolo: Young plant: length of petiole of first leaf					
		short				Foenimed	3
		medium					5
		long				Berfena, Magnafena	7
4.	**(*)**	**QN MG/VG**	**(a)**				
		Only varieties with grumolo: Plant: height at harvest maturity					
		short				Tenace	3
		medium				Fino	5
		tall				Rondo	7
5.		**QN VG**	**(+)** **(a)**				
		Foliage: attitude					
		erect				Apollo, Orion	1
		semi-erect				Fino, Gemini	3
		horizontal				Pontino, Romy	5
6.	**(*)**	**QL VG**	**(a)**				
		Foliage: color					
		green				Fino	1
		brownish				Bronsvenkel	2

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7. **(*)**	**QN** **VG**		**(a)**			
	Only varieties with green foliage: Foliage: intensity of green color					
	very light					1
	light					3
	medium					5
	dark					7
	very dark					9
8.	**QN** **VG**	**(+)**	**(a)**			
	Foliage: density					
	sparse				Bola	3
	medium				Fino, Rondo	5
	dense				Carmo, Pontino	7
9.	**QN** **MS/VG**		**(a)**			
	Leaf: length					
	short				Tenace	3
	medium				Fino	5
	long				Antares, Orion	7
10.	**QN** **VG**	**(+)**	**(a)**			
	Leaf: curvature of tip					
	absent or very weak				Rondo	1
	weak				Fino, Virgo	2
	medium				Antares, Serpico, Tiziano	3
	strong				Idillio	4
	very strong				Bellotto	5
11.	**QN** **VG**	**(+)**	**(a)**			
	Only varieties with grumolo: Petiole: width					
	narrow				Boelli, Masaccio	1
	medium				Carmo	2
	broad				Virgo	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.		**QN VG**	**(a)**				
		Only varieties with grumolo: Time of grumolo maturity					
		early					3
		medium				Orion	5
		late				Apollo, Caravaggio	7
13.		**QN MS/VG**	**(+) (a)**				
		Only varieties with grumolo: Grumolo: height					
		short				Orion	3
		medium				Fino	5
		tall					7
14.		**QN MS/VG**	**(+) (a)**				
		Only varieties with grumolo: Grumolo: width					
		narrow				Caravaggio	3
		medium				Fino	5
		broad				Preludio	7
15.	**(*)**	**QN MS/VG**	**(+) (a)**				
		Only varieties with grumolo: Grumolo: ratio height/width					
		low				Orion	3
		medium				Fino	5
		high					7
16.		**QN MS/VG**	**(+) (a)**				
		Only varieties with grumolo: Grumolo: thickness					
		thin				Caravaggio	3
		medium				Fino	5
		thick				Mars	7

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17.	**(*)**	**QN VG**	**(+) (a)**				
		Only varieties with grumolo: Grumolo: shape in cross section					
		round				Apollo	1
		broad elliptic				Orbit	2
		elliptic				Caravaggio	3
18.	**(*)**	**PQ VG**	**(a)**				
		Only varieties with grumolo: Grumolo: external color					
		whitish	blanchâtre	weißlich	blanquecino		1
		light green					2
		medium green					3
		dark green					4
19.		**QN VG**	**(+) (a)**				
		Only varieties with grumolo: Sheath: ribbing					
		weak					3
		medium				Fino	5
		strong					7
20.		**QN VG**	**(a)**				
		Only varieties with grumolo: Sheath: overlapping of sheaths					
		weak				Cristal	3
		medium				Fino	5
		strong				Apollo	7
21.	**(*)**	**QN MS/VG**					
		Only varieties with grumolo: bolting tendency					
		absent or very weak				Antares	1
		weak				Preludio, Rondo	3
		medium				Carmo	5
		strong				Cristal	7
		very strong				Di Firenze	9

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
22.	**(*)**	**QN MS/VG**					
		Only varieties without grumolo: time of appearance of main umbel					
		early				Berfena	3
		medium				Foenimed	5
		late				Budakalászi, Soroksári	7
23.		**QN MG/VG**					
		Only varieties without grumolo: time of beginning of flowering					
		early				Berfena	3
		medium				Budakalászi	5
		late					7
24.		**QN MS/VG**					
		Only varieties without grumolo: Main stem: height at flowering					
		short				Foenimed	3
		medium					5
		tall					7
25.		**QN MS/VG**					
		Only varieties without grumolo: Main umbel: diameter					
		small				Foenimed	3
		medium				Budakalászi	5
		large					7
26.	**(*)**	**QL VS**	**(+)**				
		Male sterility					
		absent				Fino	1
		present				Carmo, Rondo	9
27.		**QN MG**					
		Only varieties without grumolo: Seed: thousand seed weight					
		low				Foenimed	3
		medium				Soroksári	5
		high				Berfena, Magnafena	7

8. Explanations on the Table of Characteristics

8.1 Explanations covering several characteristics

Characteristics containing the following key in the Table of Characteristics should be examined as indicated below:

(a) Observations should be made at harvest maturity.

8.2 Explanations for individual characteristics

Ad. 2: Plant: grumolo formation

1
absent

9
present

Ad. 5: Foliage: attitude

1
erect

3
semi-erect

5
horizontal

Ad. 8: Foliage: density

3
open

5
medium

7
dense

Ad. 10: Leaf: curvature of tip

1
absent

3
strongly expressed

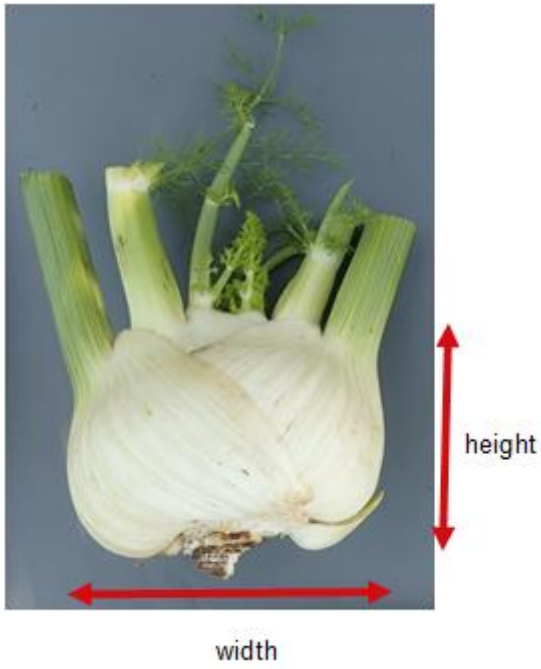
Ad. 11: Only varieties with grumolo: Petiole: width

1
narrow

2
medium

3
broad

Ad. 13: Only varieties with grumolo: Grumolo: height



Ad. 14: Only varieties with grumolo: Grumolo: width

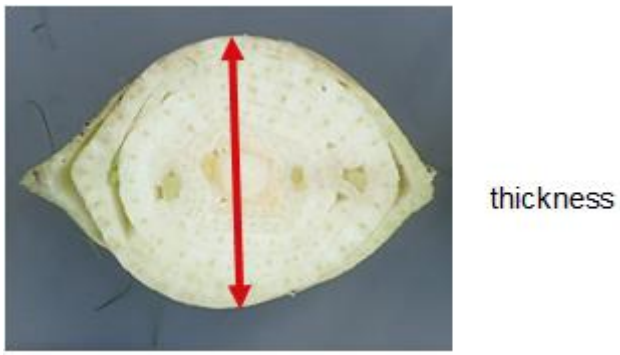
See Ad. 13

Ad. 15: Only varieties with grumolo: Grumolo: ratio height/width

See Ad. 13

Ad. 16: Only varieties with grumolo: Grumolo: thickness

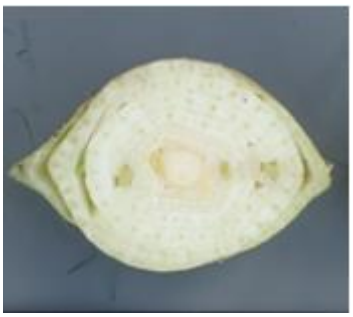
Observations should be made at the broadest part.



Ad. 17: Only varieties with grumolo: Grumolo: shape in cross section

Observations should be made at the broadest part.

1
round



2
broad elliptic

3
elliptic

Ad. 19: Only varieties with grumolo: Sheath: ribbing

The sheath is the basal part of the petiole which forms with the other petioles the grumolo.

Ad. 26: Male sterility

· Male fertile varieties show umbels with flowers with well-developed anthers.

· Male sterile varieties show umbels with flowers without anthers or with very deformed, degenerated anthers.

9. Literature

Dachler, M., Pelzmann, H., 1999: Arznei- und Gewürzpflanzen. Anbau, Ernte, Aufbereitung. 2nd edition. Österreichischer Agrarverlag, Klosterneuburg, AT.

Heeger, E. F., Brückner, K., 1950: Heil- und Gewürzpflanzen. Arten- und Sortenkunde. Deutscher Bauernverlag, Berlin, DE.

Mansfeld, R., 1986: Verzeichnis landwirtschaftlicher und gärtnerischer Kulturpflanzen, Band 2, 2nd edition, Springer Verlag, Berlin, DE.

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	*Foeniculum vulgare* Mill.
1.2 Common name	Fennel, Florence fennel, Sweet fennel

2. Applicant

Name	
Address	
Telephone No.	
Fax No.	
E-mail address	
Breeder (if different from applicant)	

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	
Breeder's reference	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:

#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))

(c) unknown cross [ ]

4.1.2 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:

4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

(a)	Self-pollination	[ ]
(b)	Cross-pollination	[ ]
(c)	Hybrid	[ ]
(d)	Other (please provide details)	[ ]

4.2.2 Other [ ]
(Please provide details)

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:

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 (2)	**Plant: grumolo formation**		
	absent	Berfena, Duitse	1 [ ]
	present	Fino	9 [ ]
5.2 (4)	**Only varieties with grumolo: Plant: height at harvest maturity**		
	very short		1 [ ]
	very short to short		2 [ ]
	short	Tenace	3 [ ]
	short to medium		4 [ ]
	medium	Fino	5 [ ]
	medium to tall		6 [ ]
	tall	Rondo	7 [ ]
	tall to very tall		8 [ ]
5.3 (6)	**Foliage: color**		
	green	Fino	1 [ ]
	brownish	Bronsvenkel	2 [ ]
5.4 (7)	**Only varieties with green foliage: Foliage: intensity of green color**		
	very light		1 [ ]
	very light to light		2 [ ]
	light		3 [ ]
	light to medium		4 [ ]
	medium		5 [ ]
	medium to dark		6 [ ]
	dark		7 [ ]
	dark to very dark		8 [ ]
	very dark		9 [ ]
5.5 (15)	**Only varieties with grumolo: Grumolo: ratio height/width**		
	low	Orion	3 [ ]
	medium	Fino	5 [ ]
	high		7 [ ]

	Characteristics	Example Varieties	Note
5.6 (17)	**Only varieties with grumolo: Grumolo: shape in cross section**		
	round	Apollo	1 [ ]
	broad elliptic	Orbit	2 [ ]
	elliptic	Caravaggio	3 [ ]
5.7 (18)	**Only varieties with grumolo: Grumolo: external color**		
	whitish		1 [ ]
	light green		2 [ ]
	medium green		3 [ ]
	dark green		4 [ ]
5.8 (21)	**Only varieties with grumolo: bolting tendency**		
	absent or very weak	Antares	1 [ ]
	very weak to weak		2 [ ]
	weak	Preludio, Rondo	3 [ ]
	weak to medium		4 [ ]
	medium	Carmo	5 [ ]
	medium to strong		6 [ ]
	strong	Cristal	7 [ ]
	strong to very strong		8 [ ]
	very strong	Di Firenze	9 [ ]
5.9 (22)	**Only varieties without grumolo: time of appearance of main umbel**		
	early	Berfena	3 [ ]
	early to medium		4 [ ]
	medium	Foenimed	5 [ ]
	medium to late		6 [ ]
	late	Budakalászi, Soroksári	7 [ ]
5.10 (26)	**Male sterility**		
	absent	Fino	1 [ ]
	present	Carmo, Rondo	9 [ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:

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 **similar** variety(ies)	Describe the expression of the characteristic(s) for **your** candidate variety
Example	*Only varieties grumolo: Grumolo: shape in cross section*	*broad elliptic*	*rounded*

Comments:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:

#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

Use/Growing season:
Spring [ ]
Summer [ ]
Autumn [ ]

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:

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”.

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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]