



PROTOCOL FOR TESTS ON DISTINCTNESS, UNIFORMITY AND STABILITY

***Brassica oleracea* L. var. *gongylodes* L.
(*Brassica oleracea* Kohlrabi Group)**

KOHLRABI

UPOV Code: BRASS_OLE_GGO

Adopted on 30/05/2023

Entry into force on 30/05/2023

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CPVO-TP/065/2

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1. SUBJECT OF THE PROTOCOL AND REPORTING

1.1 Scope of the technical protocol

This Technical Protocol applies to all varieties of *Brassica oleracea* L. convar. *acephala* (DC.) Alef. var. *gongylodes* L. (*Brassica oleracea* L. *Gongylodes* Group).

The protocol describes the technical procedures to be followed in order to meet the requirements of Council Regulation 2100/94 on Community Plant Variety Rights. The technical procedures have been agreed by the Administrative Council and are based on documents agreed by the International Union for the Protection of New Varieties of Plants (UPOV), such as the General Introduction to DUS (UPOV Document TG/1/3 http://www.upov.int/export/sites/upov/resource/en/tg_1_3.pdf), its associated TGP documents (<http://www.upov.int/tgp/en/>) and the relevant UPOV Test Guideline TG/65/4 Rev. dated 16/03/2016 (<https://www.upov.int/edocs/tgdocs/en/tg065.pdf>) for the conduct of tests for Distinctness, Uniformity and Stability.

1.2 Entry into Force

The present protocol enters into force on **30.05.2023**. Any ongoing DUS examination of candidate varieties started before the aforesaid date will not be affected by the approval of the Technical Protocol. Technical examinations of candidate varieties are carried out according to the TP in force when the DUS test starts. The starting date of a DUS examination is considered to be the due date for submitting of plant material for the first test period.

In cases where the Office requests to take-over a DUS report for which the technical examination has either been finalized or which is in the process to be carried out at the moment of this request, such report can only be accepted if the technical examination has been carried out according to the CPVO TP which was in force at the moment when the technical examination started.

1.3 Reporting between Examination Office and CPVO and Liaison with Applicant

1.3.1 Reporting between Examination Office and CPVO

The Examination Office shall deliver to the CPVO a preliminary report ("the preliminary report") no later than two weeks after the date of the request for technical examination by the CPVO.

The Examination Office shall also deliver to the CPVO a report relating to each growing period ("the interim report") and, when the Examination Office considers the results of the technical examination to be adequate to evaluate the variety or the CPVO so requests, a report relating to the examination ("the final report").

The final report shall state the opinion of the Examination Office on the distinctness, uniformity and stability of the variety. Where it considers those criteria to be satisfied, or where the CPVO so requests, a description of the variety shall be added to the report.

If a report is negative the Examination Office shall set out the detailed reasons for its findings.

The interim and the final reports shall be delivered to the CPVO as soon as possible and no later than on the deadlines as laid down in the designation agreement.

1.3.2 Informing on problems in the DUS test

If problems arise during the course of the test the CPVO should be informed immediately so that the information can be passed on to the applicant. Subject to prior pertinent agreement, on matters of particular urgency, the applicant may be directly informed at the same time as the CPVO particularly if a visit to the trial is advisable.

1.3.3 Sample keeping in case of problems

If the technical examination has resulted in a negative report, the CPVO shall inform the Examination Office as soon as possible in case that a representative sample of any relevant testing material shall be kept.

2. MATERIAL REQUIRED

2.1 Plant material requirements

Information with respect to the agreed closing dates and submission requirements of plant material for the technical examination of varieties can be found on <https://public.plantvarieties.eu/publication> in the special issue S2/S3 of the Official Gazette of the Office. General requirements on submission of samples are also to be found following the same link.

2.2 Informing the applicant of plant material requirements

The CPVO informs the applicant that

- he is responsible for ensuring compliance with any customs and plant health requirements.
- the plant material supplied should be visibly healthy, not lacking in vigour, nor affected by any important pest or disease.
- 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.

2.3 Informing about problems on the submission of material

The Examination Office shall report to the CPVO immediately in cases where the test material of the candidate variety has not arrived in time or in cases where the material submitted does not fulfil the conditions laid down in the request for material issued by the CPVO.

In cases where the examination office encounters difficulties to obtain plant material of reference varieties the CPVO should be informed.

3. METHOD OF EXAMINATION

3.1 Number of growing cycles

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

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

The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.

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" http://www.upov.int/edocs/tgpdocs/en/tgp_9.pdf.

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 Special tests for additional characteristics

In accordance with Article 23 of Implementing Rules N° 874/2009 an applicant may claim either in the Technical Questionnaire or during the test that a candidate has a characteristic which would be helpful in establishing distinctness. If such a claim is made and is supported by reliable technical data, a special test may be undertaken providing that a technically acceptable test procedure can be devised.

Special tests will be undertaken, with the agreement of the President of CPVO, where distinctness is unlikely to be shown using the characteristics listed in the protocol.

3.6 Constitution and maintenance of a variety collection

The process for the constitution and the maintenance of a variety collection can be summarized as follows:

Step 1: Making an inventory of the varieties of common knowledge;

Step 2: Establishing a collection ("variety collection") of varieties of common knowledge which are relevant for the examination of distinctness of candidate varieties;

Step 3: Selecting the varieties from the variety collection which need to be included in the growing trial or other tests for the examination of distinctness of a particular candidate variety.

3.6.1 Forms of variety collection

The variety collection shall comprise variety descriptions and living plant material, thus a living reference collection. The variety description shall be produced by the EO unless special cooperation exists between EOs and the CPVO. The descriptive and pictorial information produced by the EO shall be held and maintained in a form of a database.

3.6.2 Living Plant Material

The EO shall collect and maintain living plant material of varieties of the species concerned in the variety collection.

3.6.3 Range of the variety collection

The living variety collection shall cover at least those varieties that are suitable to climatic conditions of a respective EO.

3.6.4 Making an inventory of varieties of common knowledge for inclusion in the variety collection

The inventory shall include varieties protected under National PBR (UPOV contracting parties) and Community PBR, varieties registered in the Common Catalogue, the OECD list, the Conservation variety list and varieties in trade or in commercial registers for those species not covered by a National or the Common Catalogue.

3.6.5 Maintenance and renewal/update of a living variety collection

The EO shall maintain seeds in conditions which will ensure germination and viability, periodical checks, and renewal as required. For the renewal of existing living material the identity of replacement living plant material shall be verified by conducting side-by-side plot comparisons between the material in the collection and the new material.

4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY

The prescribed procedure is to assess distinctness, uniformity and stability in a growing trial.

4.1 Distinctness

4.1.1 General recommendations

It is of particular importance for users of this Technical Protocol to consult the UPOV-General Introduction to DUS (link in chapter 1 of this document) and TGP 9 'Examining Distinctness' (http://www.upov.int/edocs/tgpdocs/en/tgp_9.pdf) prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in this Technical Protocol.

Further guidance is provided in documents TGP/9 "Examining Distinctness" and TGP/8 "Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability".

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 Technical Protocols are familiar with the recommendations contained in the UPOV-General Introduction to DUS prior to making decisions regarding distinctness.

4.1.4 Number of plants/parts of plants to be examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 40 plants or parts taken from each of 40 plants and any other observations made on all plants in the test, disregarding any off-type plants. In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 40.

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 third column of 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. colour 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 this Technical Protocol to consult the UPOV-General Introduction to DUS (link in chapter 1 of this document) and TGP 10 'Examining Uniformity' (http://www.upov.int/edocs/tgpdocs/en/tgp_10.pdf) prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in this Technical Protocol:

4.2.2 This Technical Protocol has been developed for the examination of seed propagated varieties. For varieties with other types of propagation the recommendations in the UPOV-General Introduction to DUS and document TGP/13 "Guidance for new types and species", Section 4.5 "Testing Uniformity" should be followed.

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

For the assessment of uniformity of hybrid varieties, a population standard of 2% with an acceptance probability of 95% should be applied to off-types excluding clearly recognizable inbred plants. In the case of a sample size of 40 plants, 2 off-types are allowed.

4.3 **Stability**

It is of particular importance for users of this Technical Protocol to consult the UPOV-General Introduction to DUS (link in chapter 1 of this document) and TGP 11 'Examining Stability' (http://www.upov.int/edocs/tgpdocs/en/tgp_11.pdf).

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.

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 ORGANISATION 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 organise the growing trial so that similar varieties are grouped together.
- 5.3** The following have been agreed as useful grouping characteristics:
- a) Seedling: anthocyanin coloration of cotyledons (characteristic 1)
 - b) Harvest maturity (characteristic 22)
 - c) Male sterility (characteristic 23)
- 5.4** If other characteristics than those from the Technical Protocol are used for the selection of varieties to be included into the growing trial, the EO shall inform the CPVO and seek the prior consent of the CPVO before using these characteristics.
- 5.5** Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the UPOV-General Introduction to DUS and document TGP/9 "Examining Distinctness".

6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS

6.1 Characteristics to be used

The characteristics to be used in DUS tests and preparation of descriptions shall be those referred to in the table of characteristics. All the characteristics shall be used, providing that observation of a characteristic is not rendered impossible by the expression of any other characteristic, or the expression of a characteristic is prevented by the environmental conditions under which the test is conducted or by specific legislation on plant health. In the latter case, the CPVO should be informed.

The Administrative Council empowers the President, in accordance with Article 23 of Commission Regulation N°874/2009, to insert additional characteristics and their expressions in respect of a variety.

6.2. States of expression and corresponding notes

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

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

6.3 Example Varieties

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

6.4 Legend

For column 'CPVO N°':

G	Grouping characteristic	-see Chapter 5
QL	Qualitative characteristic	
QN	Quantitative characteristic	
PQ	Pseudo-qualitative characteristic	
(+)	Explanations for individual characteristics	-see Chapter 8.2

For column 'UPOV N°':

The numbering of the characteristics is provided as a reference to the UPOV guideline.

(*)	UPOV Asterisked characteristic	- Characteristics that are important for the international harmonization of variety descriptions.
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For column 'Stage, method':

MG, MS, VG, VS		-see Chapter 4.1.5
(a)-(b)	Explanations covering several Characteristics	-see Chapter 8.1

7. TABLE OF CHARACTERISTICS

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
1.	1. (*)	VG	Seedling: anthocyanin coloration of cotyledons		
QL		(a)	absent	Express Forcer	1
G			present	Azur-Star	9
2.	2.	VG	Seedling: intensity of green coloration of cotyledons		
QN		(a)	very light		1
			very light to light		2
			light	Erko	3
			light to medium		4
			medium	Express Forcer	5
			medium to dark		6
			dark	Eder	7
			dark to very dark		8
			very dark		9
3. (+)	3.	VG	Petiole: crossing		
QL		(a)	absent	Express Forcer	1
			present	Delikateß blauer	9
4. (+)	4. (*)	VG	Petiole: length		
QN		(a)	very short	Primavera weiß	1
			very short to short		2
			short	Quickstar, Spree	3
			short to medium		4
			medium	Patrick, Rolano	5
			medium to long		6
			long	Delikateß blauer	7
			long to very long		8
			very long		9

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
5. QN	5.	VG (a)	Petiole: thickness (in the middle)		
			very thin		1
			very thin to thin		2
			thin	Avanti, Kohyro	3
			thin to medium		4
			medium	Noriko, Rolano	5
			medium to thick		6
			thick	Adriana	7
			thick to very thick		8
			very thick		9
6. QN	6. (*)	VG (a)	Petiole: attitude		
			erect	Eder	1
			erect to semi erect		2
			semi erect	Erko, Lanro	3
			semi erect to horizontal		4
			horizontal		5
7. QN	7. (*)	VG (a)	Leaf blade: attitude		
			erect	Eder	1
			erect to semi erect		2
			semi erect	Erko, Lanro	3
			semi erect to horizontal		4
			horizontal		5

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
8. (+) QN	8. (*)	VG (a)	Leaf blade: length		
			very short		1
			very short to short		2
			short	Kohyro, Primavera weiß	3
			short to medium		4
			medium	Domino, Logo	5
			medium to long		6
			long	Lanro, Noriko	7
			long to very long		8
very long	Gigant, Superschmelz	9			
9. (+) QN	9. (*)	VG (a)	Leaf blade: width		
			very narrow		1
			very narrow to narrow		2
			narrow	Knaufs Ideal	3
			narrow to medium		4
			medium	Express Forcer, Spree	5
			medium to broad		6
			broad	Noriko	7
			broad to very broad		8
very broad	Gigant, Superschmelz	9			
10. (+) QN	10.	VG (a)	Leaf blade: shape of apex		
			acute		1
			pointed		2
			obtuse	Avanti, Express Forcer	3
			rounded	Noriko, Spree	4
			broadly rounded	Gigant, Superschmelz	5

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
11. (+) QN	11	VG (a)	Leaf blade: number of margin incisions (on upper part of leaf)		
			absent or very few		1
			very few to few		2
			few	Azur-Star	3
			few to medium		4
			medium	Express Forcer	5
			medium to many		6
			many		7
			many to very many		8
			very many		9
12 (+) QN	12.	VG (a)	Leaf blade: depth of margin incisions (on upper part of leaf)		
			absent or very shallow		1
			very shallow to shallow		2
			shallow	Oste	3
			shallow to medium		4
			medium	Express Forcer	5
			medium to deep		6
			deep	Soko	7
			deep to very deep		8
			very deep		9
13. QN	13	VG (a)	Leaf blade: shape in cross section		
			concave		1
			plane	Express Forcer	2
			convex	Azur-Star, Erko	3

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
14.	14. (*)	VG	Leaf blade: blistering		
QN		(a)	very weak		1
			very weak to weak		2
			weak	Avanti	3
			weak to medium		4
			medium	Spree	5
			medium to strong		6
			strong	Lanro	7
			strong to very strong		8
			very strong		9
15.	15	VG	Leaf blade: waxiness		
QN		(a)	very weak		1
			very weak to weak		2
			weak		3
			weak to medium		4
			medium	Express Forcer	5
			medium to strong		6
			strong	Blaril	7
			strong to very strong		8
			very strong		9
16	16. (*)	VG	Leaf blade: hue of green colour		
PQ		(a)	absent	Erko, Noriko	1
			greyish	Express Forcer, Lanro	2
			bluish	Azur-Star	3

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
17	17 (*)	VG	Leaf blade: intensity of green colour		
QN		(a)	very light		1
			very light to light		2
			light		3
			light to medium		4
			medium	Noriko, Quickstar	5
			medium to dark		6
			dark	Avanti, Lanro	7
			dark to very dark		8
			very dark	Pader	9
18. (+)	18.	VG	Kohlrabi: number of inner leaves		
QN		(b)	very few		1
			very few to few		2
			few	Erko	3
			few to medium		4
			medium	Express Forcer	5
			medium to many		6
			many	Lanro	7
			many to very many		8
			very many		9
19.	19. (*)	VG	Kohlrabi: colour of skin		
PQ		(b)	white	Beas	1
			white green	Bode, Express Forcer, Lanro, Timpano	2
			green	Avaya, Erko, Gaston, Noriko	3
			violet	Azur-Star, Oder, Purpuran	4

CPVO N°	UPOV N°	Stage, Method	Characteristics	Examples	Note
20. (+)	20. (*)	VG	Kohlrabi: shape (in longitudinal section)		
QN		(b)	transverse narrow elliptic	Erko	1
			transverse elliptic	Azur-Star, Quickstar	2
			transverse broad elliptic	Noriko	3
			circular	Blaril	4
			broad elliptic		5
21. (+)	21.	VG	Kohlrabi: shape of apex		
QN		(b)	indented	Express Forcer	3
			indented to level		4
			level	Avanti, Spree	5
			level to raised		6
			raised	Gigant, Superschmelz	7
22. (+)	22. (*)	MG	Harvest maturity		
QN		(b)	very early	Express Forcer	1
			very early to early		2
			early	Azur-Star, Quickstar	3
			early to medium		4
			medium	Lanro	5
			medium to late		6
			late	Delikateß blauer	7
			late to very late		8
G			very late	Blaril	9
23. (+)	23. (*)	VG/MS	Male sterility		
QL		(a)	absent	Express Forcer, Lanro	1
G			present	Erika, Morre, Oasis	9

8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS

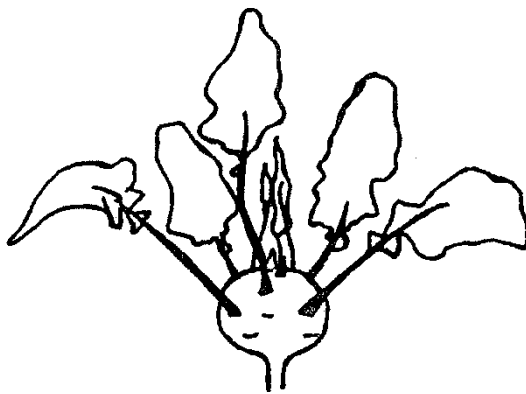
8.1 Explanations covering several characteristics

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

- a) All observations on the plant and the leaf should be made before harvest maturity.
- b) All observations on the kohlrabi should be made at harvest maturity

8.2 Explanations for individual characteristics

Ad. 3: Petiole: crossing

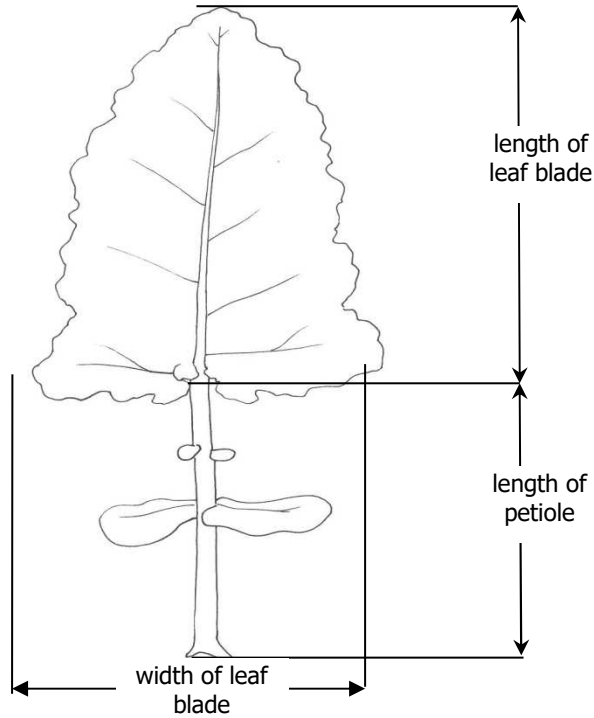


1
absent



9
present

- Ad. 4: Petiole: length
- Ad. 8: Leaf blade: length
- Ad. 9: Leaf blade: width



Ad. 10: Leaf blade: shape of apex



1
acute



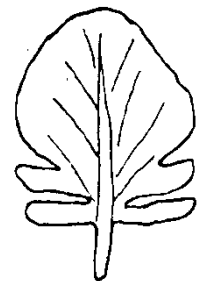
2
pointed



3
obtuse



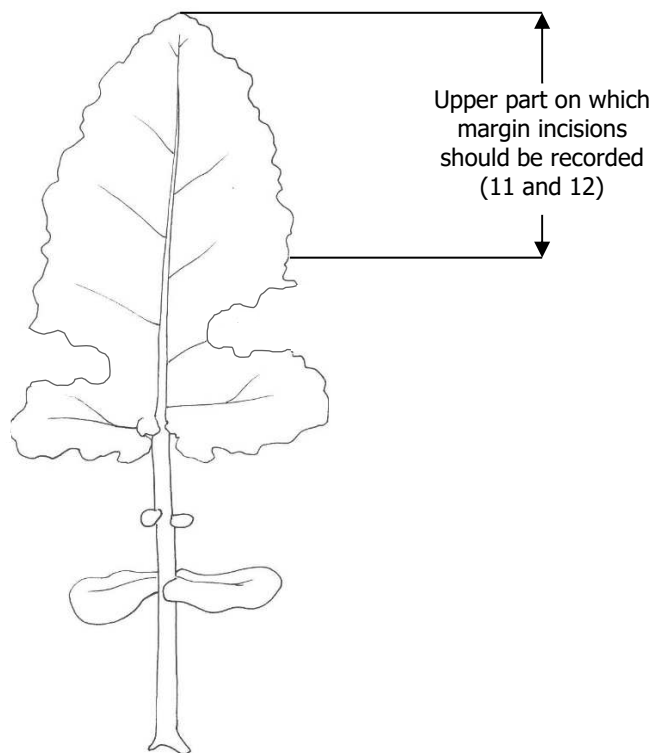
4
rounded



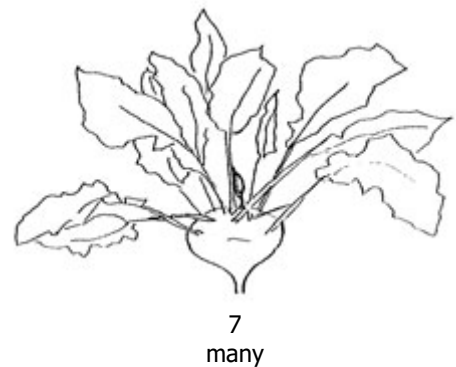
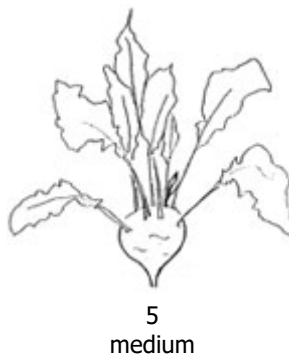
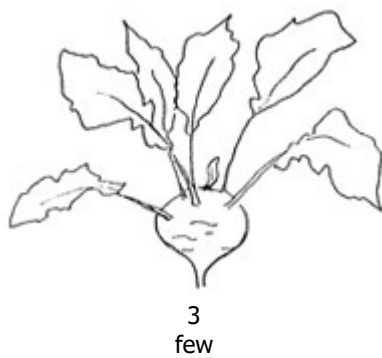
5
broadly rounded

Ad. 11: Leaf blade: number of margin incisions (on upper part of leaf)

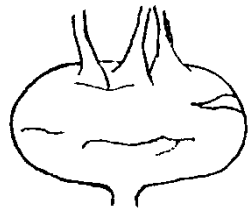
Ad. 12: Leaf blade: depth of margin incisions (on upper part of leaf)



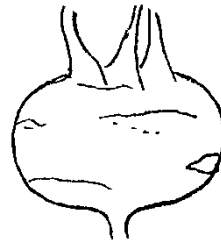
Ad. 18: Kohlrabi: number of inner leaves



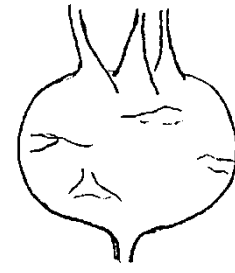
Ad. 20: Kohlrabi: shape (in longitudinal section)



1
transverse narrow elliptic



2
transverse elliptic



3
transverse broad elliptic



4
circular

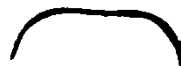


5
broad elliptic

Ad. 2: Kohlrabi: shape of apex



3
indented



5
level



7
raised

Ad. 22: Harvest maturity

Harvest maturity is considered as being reached if 50 % of kohlrabis reach 7 cm diameter in the greenhouse or 8 cm diameter in the open field.

Ad. 23: Male sterility

To be tested in a field trial and/or in a DNA marker test.

Field trial:

Check presence of pollen on stamen: if pollen on stamen is present then male sterility is absent; if pollen on stamen is absent then male sterility is present.

DNA marker test and/or field trial:

All varieties declared male sterile in the TQ can be examined in a field trial or in a DNA marker test¹. In the case of a DNA marker test, if the CMS marker appears to be not present, a field trial should be performed to observe whether the variety is male sterile (on another mechanism) or fertile. All varieties declared fertile are to be tested in a field trial.

¹ The description of the method to test male sterility for Brassica (CMS marker) is covered by a trade secret. The owner of the trade secret, Syngenta Seeds B.V., has given its consent for the use of the CMS marker solely for the purposes of examination of Distinctness, Uniformity and Stability (DUS) and for the development of variety descriptions **by CPVO and CPVO Examination Offices**. Syngenta Seeds B.V. declares that **neither CPVO, nor CPVO Examination offices** that use the CMS marker for the above purposes will be held accountable for possible (mis)use of the CMS marker by third parties. Please contact Naktuinbouw, Netherlands, to obtain the method and information on the CMS marker for the purposes mentioned above.

9. LITERATURE

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10. TECHNICAL QUESTIONNAIRE

The Technical Questionnaire is available on the [CPVO website](#) under the following reference:
CPVO-TQ/065/2 – *Brassica oleracea* L. var. *gongylodes* L. (*Brassica oleracea* Kohlrabi Group)

Link to e-TQ:

<https://online.plantvarieties.eu/backOfficeFormQuestions?viewFormId=14573&viewFormType=TQ&viewFormLang=EN&commonName=kohlrabi&status=1,2>