

PROTOCOL FOR DISTINCTNESS, UNIFORMITY AND STABILITY TESTS

***Ribes nigrum* L.**

BLACKCURRANT

UPOV Code: RIBES_NIG

Adopted on 01/04/2009

Entered into force on 01/03/2009

I SUBJECT OF THE PROTOCOL

The protocol describes the technical procedures to be followed in order to meet the Council Regulation 2100/94 on Community Plant Variety Rights. The technical procedures have been agreed by the Administrative Council and are based on general UPOV Document TG/1/3 and UPOV Guideline TG/40/7 dated 09/04/2008 for the conduct of tests for Distinctness, Uniformity and Stability. This protocol applies to fruit varieties of ***Ribes nigrum L.***

II SUBMISSION OF SEED AND OTHER PLANT MATERIAL

1. The Community Plant Variety Office (CPVO) is responsible for informing the applicant of

- the closing date for the receipt of plant material;
- the minimum amount and quality of plant material required;
- the examination office to which material is to be sent.

A sub-sample of the material submitted for test will be held in the variety collection as the definitive sample of the candidate variety.

The applicant is responsible for ensuring compliance with any customs and plant health requirements.

2. Final dates for receipt of documentation and material by the Examination Office

The final dates for receipt of requests, technical questionnaires and the final date or submission period for plant material will be decided by the CPVO and each Examination Office chosen.

The Examination Office is responsible for immediately acknowledging the receipt of requests for testing, and technical questionnaires. Immediately after the closing date for the receipt of plant material the Examination Office should inform the CPVO whether acceptable plant material has been received or not. However if unsatisfactory plant material is submitted the CPVO should be informed as soon as possible.

3. Plant material requirements

The final dates for request of technical examination and sending of Technical Questionnaire by the CPVO as well as submission date, quantity and quality of plant material by the applicant can be found in the S2 supplement of the CPVO Official Gazette and the CPVO website (www.cpvo.europa.eu).

Quality of plants:

Should not be less than the standards laid down in Council Directive 2000/29/EC and its amendments concerning quarantine organisms, and Council Directive 2008/90/EC and Commission Directive 93/48/EEC and their amendments concerning organisms impairing quality, at the date of adoption of this protocol; please refer to "Eur-Lex" for the full text and in case of any subsequent amendments to the three aforesaid Directives.

Healthy plant material of the candidate variety should be delivered to the test station in accordance with the requirements outlined in the instructions sent by the CPVO for the submission of plant material, and which can also be consulted in the relevant entries for blackcurrant within the S2 Gazette and the CPVO website. In particular with respect to the phytosanitary requirements, the plant material must be accompanied by a valid certificate from a recognised authority attesting to the fact that the plant material sent for the DUS technical examination has shown negative laboratory test results for the list of pests and pathogens outlined in the pertinent entry of the examination office in the S2 Gazette/CPVO website, where the candidate blackcurrant variety is to undergo its DUS technical examination.

Chemical treatment: The plant material must not have undergone any treatment unless the CPVO and the examination office allow or request such treatment. If it has been treated, full details of the treatment must be given.

Labelling of individual plants in sample:

- Species
- File number of the application allocated by the CPVO
- Breeder's reference
- Examination office's reference (if known)
- Name of applicant
- The phrase "On request of the CPVO"

III CONDUCT OF TESTS

1. Variety collection

A variety collection will be maintained for the purpose of establishing distinctness of the candidate varieties in test. A variety collection may contain both living material and descriptive information. A variety will be included in a variety collection only if plant material is available to make a technical examination.

Pursuant to Article 7 of Council Regulation No. 2100/94, the basis for a collection should be the following:

- varieties listed or protected at the EU level or at least in one of the EEA Member States;
- varieties protected in other UPOV Member States;
- any other variety in common knowledge.

The composition of the variety collection in each Examination Office depends on the environmental conditions in which the Examination Office is located.

Variety collections will be held under conditions which ensure the long term maintenance of each accession. It is the responsibility of Examination Offices to replace reference material which has deteriorated or become depleted. Replacement material can only be introduced if appropriate tests confirm conformity with the existing reference material. If any difficulties arise for the replacement of reference material, Examination Offices must inform the CPVO. If authentic plant material of a variety cannot be supplied to an Examination Office the variety will be removed from the variety collection.

2. Material to be examined

Candidate varieties will be directly compared with other candidates for Community plant variety rights tested at the same Examination Office, and with appropriate varieties in the variety collection. When necessary an Examination Office may also include other candidates and varieties. Examination Offices should therefore make efforts to co-ordinate the work with other Offices involved in DUS testing of blackcurrant. There should be at least an exchange of technical questionnaires for each candidate variety, and during the test period, Examination Offices should notify each other and the CPVO of candidate varieties which are likely to present problems in establishing distinctness. In order to solve particular problems Examination Offices may exchange plant material.

3. Characteristics to be used

The characteristics to be used in DUS tests and preparation of descriptions shall be those referred to in the Annex 1. 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. In the latter case, the CPVO should be informed. In addition the existence of some other regulation e.g. plant health, may make the observation of the characteristic impossible.

The Administrative Council empowers the President, in accordance with Article 23 of Commission Regulation N° 1239/95, to insert additional characteristics and their expression in respect of a variety.

4. Grouping of varieties

The varieties and candidates to be compared will be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety and which in their various states of expression are fairly evenly distributed throughout the collection. In the case of continuous grouping characteristics overlapping states of expression between adjacent groups is required to reduce the risks of incorrect allocation of candidates to groups. The characters used for grouping could be the following:

- a) One-year-old shoot: colour (characteristic 4)
- b) Young shoot: anthocyanin coloration (characteristic 10)
- c) Fruit: colour (characteristic 26)
- d) Time of beginning of fruit harvest (characteristic 30)

5. Trial designs and growing conditions

The minimum duration of tests (independent growing cycles) will normally include at least two satisfactory crops of fruit. Tests will be carried out under conditions ensuring normal growth. The size of the plots will be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made up to the end of the growing period.

The test design is as follows

Each test should include 5 plants.

Unless otherwise indicated, all observations should be made on 5 plants or parts taken from each of 5 plants. In the case of parts of plants, the number to be taken from each of the plants should be 2.

6. Special tests

In accordance with Article 83(3) of Council Regulation No. 2100/94 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 characters listed in the protocol.

7. Standards for decisions

a) **Distinctness**

A candidate variety will be considered to be distinct if it meets the requirements of Article 7 of Council Regulation No. 2100/94.

b) **Uniformity**

A candidate will be considered to be sufficiently uniform if the number of off-types does not exceed the number of plants as indicated in the table below. A population standard of 1% and an acceptance probability of 95% should be applied.

Table of maximum numbers of off-types allowed for uniformity standards.

Number of plants	off-types allowed
≤ 5	0

c) **Stability**

A candidate will be considered to be sufficiently stable when there is no evidence to indicate that it lacks uniformity.

IV REPORTING OF RESULTS

After each recording season the results will be summarised and reported to the CPVO in the form of a UPOV model interim report in which any problems will be indicated under the headings distinctness, uniformity and stability. Candidates may meet the DUS standards after two fruiting periods but in some cases three fruiting periods may be required. When tests are completed the results will be sent by the Examination Office to the CPVO in the form of a UPOV model final report.

If it is considered that the candidate complies with the DUS standards, the final report will be accompanied by a variety description in the format recommended by UPOV. If not the reasons for failure and a summary of the test results will be included with the final report.

The CPVO must receive interim reports and final reports by the date agreed between the CPVO and the examination office.

Interim reports and final examination reports shall be signed by the responsible member of the staff of the Examination Office and shall expressly acknowledge the exclusive rights of disposal of CPVO.

V LIAISON WITH THE APPLICANT

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 agreement, the applicant may be directly informed at the same time as the CPVO particularly if a visit to the trial is advisable.

The interim report as well as the final report shall be sent by the Examination Office to the CPVO.

VI - ENTRY INTO FORCE

The present protocol enters into force on **01 March 2009**. Any ongoing DUS examination of candidate varieties started before the aforesaid date will not be affected by the approval of the new TP. 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 the submission of plant material for the first growing period.

In cases where the CPVO requests to take-over a DUS report for which the technical examination has either been finalized or which is in the process of being carried out at the moment of the 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.

ANNEXES TO FOLLOW

ANNEX I

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Table of characteristics to be used in DUS-test and preparation of descriptions 7

Legend:

- (+) See explanations on the Table of characteristics
- (a)-(e) See Explanations on the Table of Characteristics
- G Grouping characteristic

Types of expression of characteristics:

- QL – Qualitative characteristic
- QN – Quantitative characteristic
- PQ – Pseudo-qualitative characteristic

Type of 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

When a method of observation is attributed to a certain characteristic, the first differentiation is made depending if the action taken is a visual observation (V) or a measurement (M).

The second differentiation deals with the number of observations the expert attributes to each variety, thus the attribution of either G or S.

If a single observation of a group consisting of an undefined number of individual plants is appropriate to assess the expression of a variety, we talk about a visual observation or a measurement made on a group of plants, thus we attribute the letter G (either VG or MG). If the expert makes more than one observation on that group of plants, the decisive part is that we have at the end only one data entry per variety which means that we have to deal with G (e.g. measurement of plant length on a plot – MG, visual observation of green colour of leaves on a plot – VG).

If it is necessary to observe a number of individual plants to assess the expression of a variety, we should attribute the letter S (thus either VS or MS). Single plant data entries are kept per variety for further calculations like the variety mean (e.g. measurement of length of ears – MS, visual observation of growth habit of single plants in grasses – VS). The number of individual plants to be observed in such cases is stated in section III.5.

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Technical Questionnaire

ANNEX I

TABLE OF CHARACTERISTICS TO BE USED IN DUS-TEST AND PREPARATION OF DESCRIPTIONS

CPVO N°	UPOV N°	Stage	Characteristics	Examples	Note
1. QN	1.	VG	Plant: height		
	(*)	(a)	very short	Stuarts Green	1
			short	Strata	3
			medium	Ben Alder	5
			tall	Goliath	7
			very tall	Magnus	9
2. QN	2.	VG	Plant: growth habit		
	(*)	(a)	upright	Magnus, Westra	1
	(+)	(+)	semi-upright	Baldwin, Blackdown	2
			spreading	Tenah	3
3. QN	3.	VG	Plant: number of basal shoots		
		(a)	few	Baldwin Hilltop	3
			medium	Ben Lomond	5
			many	Blacksmith	7
4. PQ G	4.	VG	One-year-old shoot: colour		
	(*)	(a)	yellow brown	Tenah	1
	(+)	(+)	red brown		2
			brown	Hatton Black, Jet	3
			greyish	Cotswold Cross	4
5. QN	5.	VG	Vegetative bud: position in relation to shoot		
	(*)	(a)	adpressed or slightly held out	Triton	1
	(+)	(+)	moderately held out	Hatton Black	2
			strongly held out	Baldwin	3

CPVO N°	UPOV N°	Stage	Characteristics	Examples	Note			
6.	6.	VG	Vegetative bud: length					
			(*)	(a)	short	Ben Tirran	3	
			QN	QN	medium	Hatton Black	5	
long	Laxton's Tinker	7						
7.	7.	VG	Vegetative bud: shape of apex					
			(*)	(a)	narrow acute	Baldwin	1	
			(+)	(+)	broad acute	Ben Nevis	2	
PQ	PQ		rounded	Goliath	3			
8.	8.	VG	Vegetative bud: anthocyanin coloration					
			(*)	(a)	absent or very weak		1	
			QN	QN	weak	Ben Nevis	3	
					medium	Baldwin, Ben Lomond	5	
		strong	Cotswold Cross, Mammoth	7				
9.	9.	VG	Vegetative bud: bloom					
			(+)	(+)	(a)	weak	Roodknop	3
			QN	QN	medium	Westwick Choice	5	
strong	French	7						
10.	10.	VG	Young shoot: anthocyanin coloration					
			(*)	(b)	absent or very weak	Goliath	1	
			QN	QN	weak	Roodknop	3	
					medium	Hatton Black	5	
G		strong	Malvern Cross	7				
11.	11.	VG	Leaf blade: length					
			QN	QN	(b)	short	Hatton Black, Magnus	3
					medium	Baldwin, Cotswold Cross	5	
long	Ben Sarek	7						

CPVO N°	UPOV N°	Stage	Characteristics	Examples	Note
12.	12.	VG	Leaf blade: width		
QN	QN	(b)	narrow	Ben Nevis	3
			medium	Goliath, Hatton Black	5
			broad	Ojebyn	7
			very broad	Ben Sarek	9
13.	13.	VG/MG	Leaf blade: length/width ratio		
QN	QN	(b)	small	Narjadnaja	3
			medium	French, Rosenthals Langtraubige	5
			large	Silvergieters Schwarze, Wassil	7
14.	14.	VG	Leaf blade: base		
(+)	(+)	(b)	strongly open	French	1
QN	QN		moderately open	Tor Cross	2
			weakly open	Ometa	3
			touching	Ben Nare	4
			overlapping	Veloy	5
15.	15.	VG	Leaf blade: intensity of green colour (upper side)		
QN	QN	(b)	light	Malvern Cross	3
			medium	Hatton Black	5
			dark	Magnus, Strata	7
16.	16.	VG	Leaf blade: glossiness (upper side)		
QN	QN	(b)	absent or weak	Blacksmith	1
			medium	Andorine, Titania	2
			strong	Jet	3

CPVO N°	UPOV N°	Stage	Characteristics	Examples	Note
17.	17.	VG	Petiole: anthocyanin coloration on upper side		
QN	QN	(b)	absent or very weak	Goliath	1
			weak	Laxton's Tinker	3
			medium	Baldwin	5
			strong	Brødtorp	7
18.	18.	VG/MG	Plant: number of inflorescence per axil		
(+)	(+)	(c)	one and two	Magnus	1
QN	QN		two to four	Hatton Black	2
			more than four		3
19.	19.	VG	Inflorescence: length		
	(*)	(c)	short	Ben Sarek, Cotswold Cross	1
(+)	(+)		medium	Baldwin	2
QN	QN		long	Ometa	3
20.	20.	VG	Inflorescence: number of flower		
QN	QN	(c)	few	Ben Sarek, Magnus	3
			medium	Ben Alder	5
			many	Ometa	7
21.	21.	VG	Sepal: anthocyanin coloration		
	(*)	(c)	absent or very weak		1
QN	QN		weak	Chereshneva, Hatton Black	3
			medium	Baldwin	5
			strong	Ceres	7
22.	22.	VG	Ovary: anthocyanin coloration		
	(*)	(c)	absent or very weak	Cotswold Cross	1
QN	QN		weak	Baldwin	3
			medium	Chereshneva	5
			strong	Laxton's Tinker	7

CPVO N°	UPOV N°	Stage	Characteristics	Examples	Note
23.	23.	VG	Infructescence: type		
(+)	(+)	(d)	simple		1
QN	QN		raceme		2
			panicle 1		3
			panicle 2		4
24.	24.	VG	Infructescence: range of fruit size		
	(+)	(d)	small	Titania	1
QN	QN		medium	Black Reward	2
			large	Jet	3
25.	25.	VG	Fruit: size		
	(*)	(e)	small	Goliath, Sarolata	3
(+)	(+)		medium	Baldwin	5
QN	QN		large	Titania	7
			very large	Bona	9
26.	26.	VG	Fruit: colour		
	(*)	(e)	green	Stuart's Green	1
PQ	PQ		brownish black	Westwick Choice	2
G			black	Titania	3
27.	27.	VG	Fruit: glossiness		
QN	QN	(e)	very weak	Golubka	1
			weak	Cotswold Cross	3
			medium	Titania	5
			strong	Ben Tirran	7
28.	28.	MG	Time of beginning of vegetative bud burst		
(+)	(+)		early	Cotswold Cross	3
QN	QN		medium	Laxton's Tinker	5
			late	Ben Lomond	7

CPVO N°	UPOV N°	Stage	Characteristics	Examples	Note
29.	29.	MG	Time of beginning of flowering		
(+)	(+)		very early	Brødtorp, Ceres	1
QN	QN		early	Kimberley, Malvern Cross	3
			medium	Cotswold Cross, Goliath	5
			late	Black Reward, Laxton's Tinker	7
			very late	Ben Avon, Jet	9
30.	30.	MG	Time of beginning of fruit harvest		
	(*)		very early	Boskoop Giant, Kimberley	1
	(+)		early	Andega, Magnus	3
QN	QN		medium	Baldwin Hilltop, Goliath	5
			late	Ben Alder, Ben Lomond, Hatton Black	7
G			very late	Jet	9

EXPLANATIONS AND METHODS

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

- (a) Plant, one-year-old shoot and vegetative bud: All observations should be made on dormant bushes in winter after at least one growing season. Vegetative bud: All observations should be made in the middle third of one year old shoots, before bud burst.
- (b) Young shoot, leaf blade, petiole: All observations should be made in early summer. For leaf blade and petiole, mature leaves from the middle third of one year old shoots from the outside of the bush should be observed.
- (c) Inflorescence, sepal, ovary: All observations should be made at full flowering.
- (d) Infructescence: Unless otherwise stated, all observations should be made just before harvest. The infructescence is also known as the fruit truss or strig.
- (e) Fruit: Unless otherwise stated, all observations should be made after harvest.

Ad. 2: Plant: growth habit

The growth habit is assessed using the relationship between plant height and plant width: an upright variety is taller than broad; a semi upright variety is approximately the same height as the width; a spreading variety is broader than tall.



1
upright



2
semi-upright

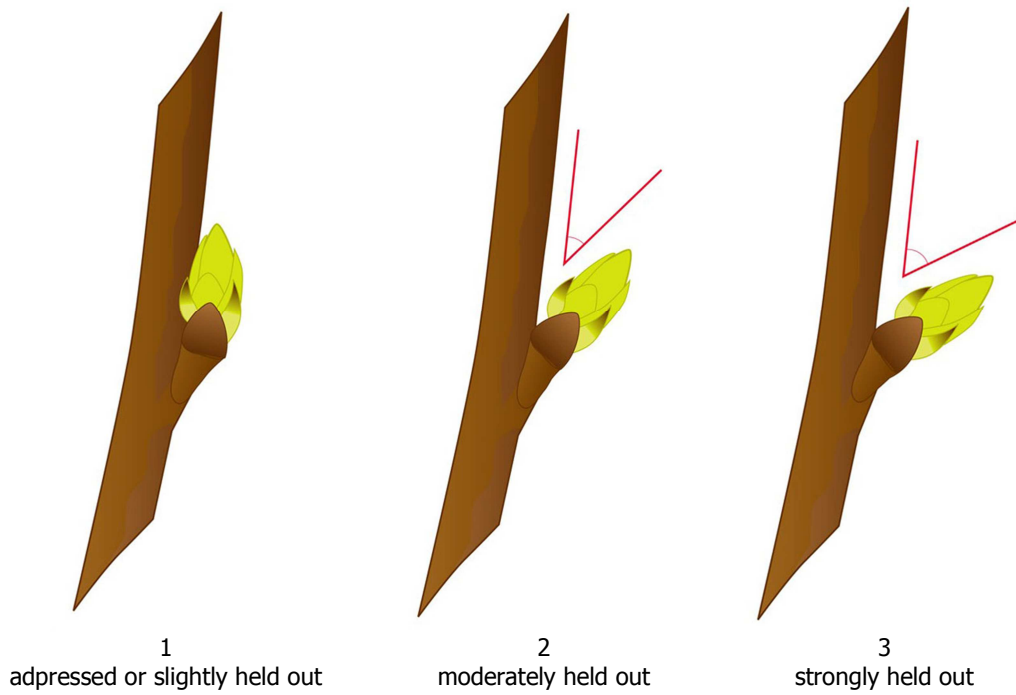


3
spreading

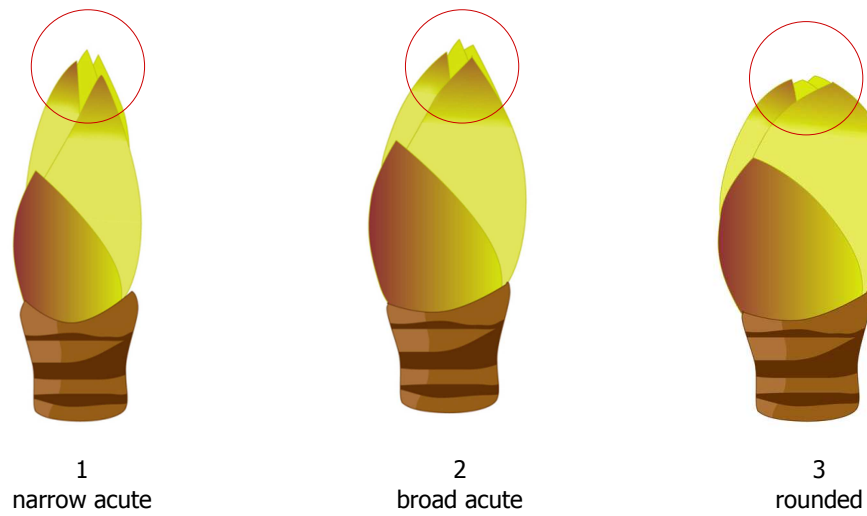
Ad. 4: One-year-old shoot: colour

Observations should be made on the middle third of a shoot on the outside of the bush.

Ad. 5: Vegetative bud: position in relation to shoot



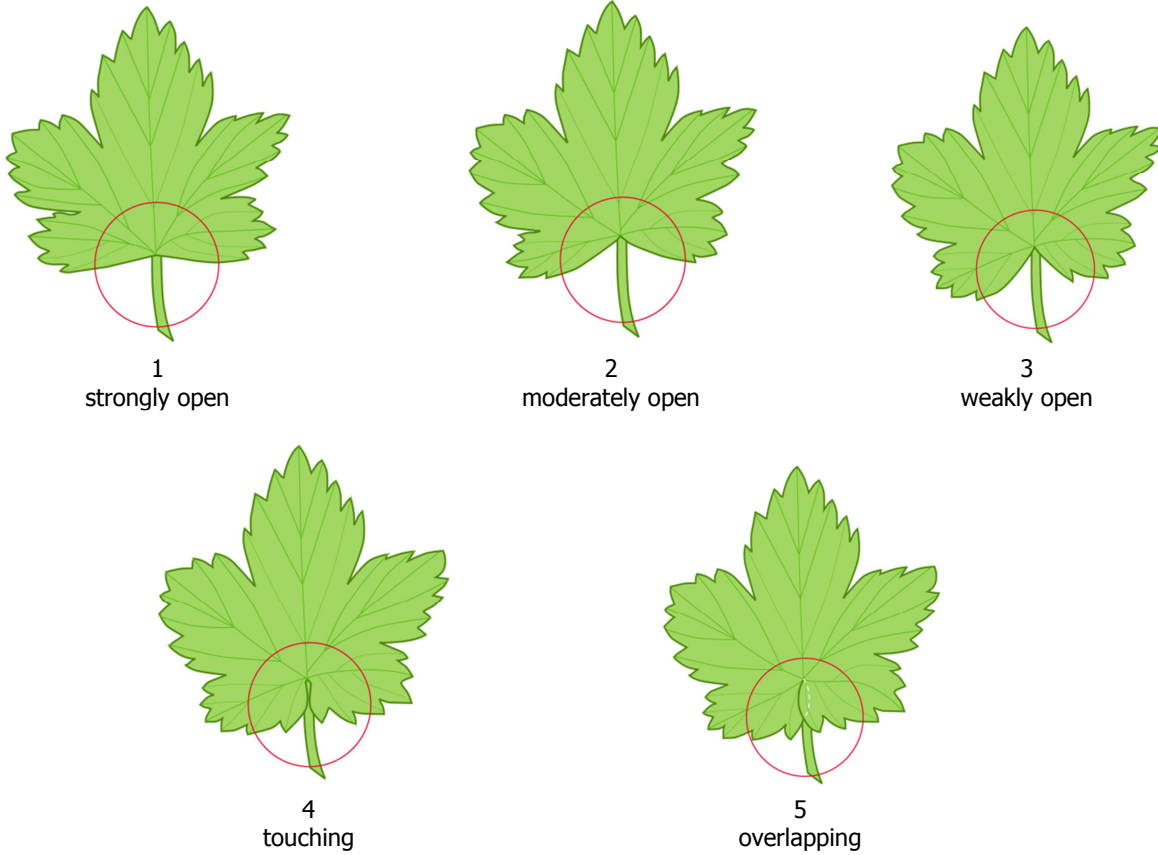
Ad. 7: Vegetative bud: shape of apex



Ad. 9: Vegetative bud: bloom

Vegetative bud bloom refers to the level of glaucosity on the bud.

Ad. 14: Leaf blade: base

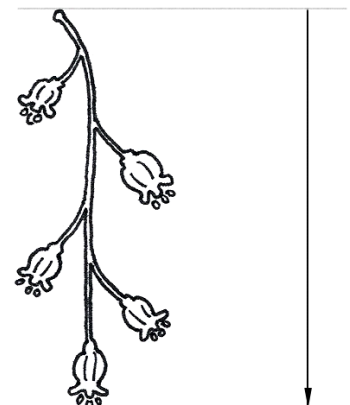


Ad. 18: Plant: number of inflorescence per axil

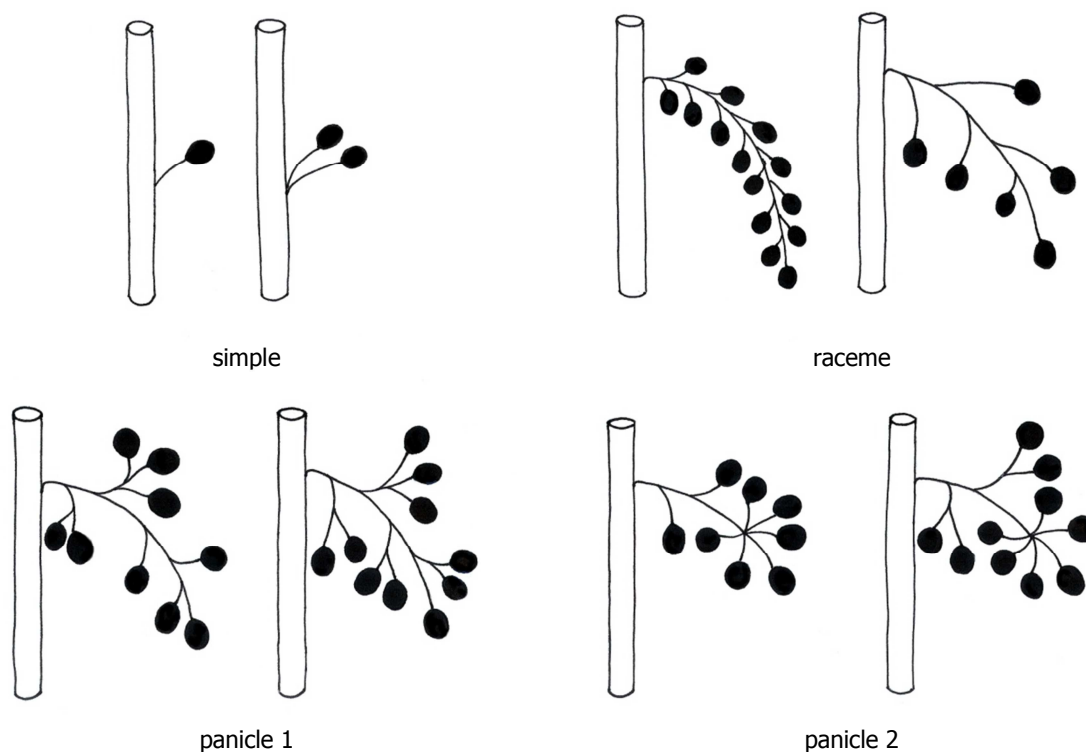
The number of inflorescences per axil is determined by observing the leaf axils in the upper third of a one year old shoot, at flowering.

Ad. 19: Inflorescence: length

The inflorescence length includes the peduncle.



Ad. 23: Infructescence: type



Ad. 24: Infructescence: range of fruit size

The range of fruit size is determined by observing the range of individual fruit sizes within a single infructescence (fruiting truss).

Ad. 25: Fruit: size

Fruit size can be assessed by weight because the density of fruit flesh of all varieties is very similar. Fruit size should be determined by the weight of a minimum of 50 fruits, covering all fruit sizes present, harvested from the 5 plants.

Ad. 28: Time of beginning of vegetative bud burst

The time of beginning of vegetative bud burst is when the first green leaves on a bud are just visible.

Ad. 29: Time of beginning of flowering

The time of beginning of flowering is when 10% of flowers are fully open.

Ad. 30: Time of beginning of fruit harvest

The time of fruit harvest is when 10% of fruits have achieved full colour.

LITERATURE

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ANNEX II



CPVO · OCVV

Community Plant Variety Office
Office Communautaire des Variétés Végétales

TECHNICAL QUESTIONNAIRE

to be completed in connection with an application for Community Plant Variety Rights
Please answer all questions. A question without any answer will lead to a non-attribution
of an application date. In cases where a field / question is not applicable, please state so.

1. Botanical taxon: Name of the genus, species or sub-species to which the variety belongs and common name

Species *Ribes nigrum L.*

BLACKCURRANT

2. Applicant(s): Name(s) and address(es), phone and fax number(s), Email address, and where appropriate name and address of the procedural representative

3. Variety denomination

a) Where appropriate proposal for a variety denomination:

b) Provisional designation (breeder's reference):

4. Information on origin, maintenance and reproduction of the variety

4.1 Breeding, maintenance and reproduction of the variety

Please indicate breeding scheme, parents and other relevant information

Variety resulting from:

- (a) Crossing
 - (i) controlled cross (indicate parent varieties)..... []
 - (ii) partially known cross (indicate known parent varieties)..... []
 - (iii) totally unknown cross []
- (b) Mutation (indicate parent variety) []
- (c) Discovery and development
(indicate where, when discovered and how developed): []
- (d) Other (please provide details) []

4.2 Method of propagation

- (a) Vegetative propagation
 - (i) cuttings []
 - (ii) *in vitro* propagation []
 - (iii) other (state method) []
- (b) Other (please provide details) []

4.3 Geographical origin of the variety: the region and the country in which the variety was bred or discovered and developed		
5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in the CPVO Protocol; please mark the state of expression which best corresponds).		
Characteristics	Example varieties	Note
5.1 (2) Plant: growth habit		
upright	Magnus, Westra	1 []
semi upright	Baldwin, Blackdown	2 []
spreading	Tenah	3 []
5.2 (4) One-year-old shoot: colour		
yellow brown	Tenah	1 []
red brown		2 []
brown	Hatton Black, Jet	3 []
greyish	Cotswold Cross	4 []
5.3 (10) Young shoot: anthocyanin coloration		
absent or very weak	Goliath	1 []
weak	Roodknop	3 []
medium	Hatton Black	5 []
strong	Malvern Cross	7 []
5.4 (25) Fruit: size		
small	Goliath, Sarolata	3 []
medium	Baldwin	5 []
large	Titania	7 []
very large	Bona	9 []

Characteristics		Example varieties	Note
5.5 (26)	Fruit: colour		
	green	Stuart's Green	1 []
	brownish black	Westwick Choice	2 []
	black	Titania	3 []
5.6 (30)	Time of beginning of fruit harvest		
	very early	Boskoop Giant, Kimberley	1 []
	early	Andega, Magnus	3 []
	medium	Baldwin Hilltop, Goliath	5 []
	late	Ben Alder, Ben Lomond, Hatton Black	7 []
	very late	Jet	9 []
6. Similar varieties and differences from these varieties:			
Denomination of similar variety	Characteristic in which the similar variety is different ¹⁾	State of expression of similar variety	State of expression of candidate variety
<p>¹⁾ In the case of identical states of expressions of both varieties, please indicate the size of the difference</p>			

7. Additional information which may help to distinguish the variety

A representative printed-out colour photo of the variety **must** be added to the Technical Questionnaire.

7.1 Resistance to pests and diseases

7.2 Special conditions for the examination of the variety

YES, please specify

NO

7.3 Other information

YES, please specify

NO

8. GMO-information required

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

YES NO

If yes, please add a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

9. Information on plant material to be examined

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) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (b) Chemical treatment (e.g. growth retardant or pesticide) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (c) Tissue culture | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (d) Other factors | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Please provide details of where you have indicated "Yes":

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Date

Signature

Name

[End of document]