Date: 18/11/2004



PROTOCOL FOR DISTINCTNESS, UNIFORMITY AND STABILITY TESTS

Hypericum hircinum L.

Hypericum androsaemum L.

Hypericum x inodorum Mill.

UPOV Species Codes: HYPER

HYPER_AND

HYPER_INO

Adopted on 18th November 2004

Date: 18/11/2004

I - SUBJECT OF THE PROTOCOL

The protocol describes the technical procedures to be followed in order to meet the requirement of 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 UPVO Guideline TG/216/1 dated 31/03/2004 for the conduct of tests for Distinctness, Uniformity and Stability. This protocol applies to all varieties of *Hypericum hircinum L.*, *Hypericum androsaemum L.* and *Hypericum x inodorum Mill.*, of the family *Clusiaceae* including hybrids of the species concerned.

II - SUBMISSION OF 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.

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. If no or unsatisfactory plant material is submitted the CPVO should be informed as soon as possible.

3. Plant material requirements

Information with respect to closing dates and submission requirements of plant material for the technical examination of varieties can be found on the CPVO website (www.cpvo.europa.eu) and in the special Issue S2 of the Official Gazette of the Office published yearly in the month of September.

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Quality: The plant material supplied should be visibly

healthy, not lacking in vigour or affected by any

important pest or disease, especially virus.

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 sample: - Species

- File number of the application allocated by the CPVO

- Breeder's reference

- Examination 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 reference 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.

It is the responsibility of Examination Office to keep the variety collection up to date.

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.

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3. Characteristics to be used

The characteristics to be used in DUS tests and preparation of descriptions shall be those referred to in 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 later 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 expressions 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 are the following:

- (a) Plant: habit (characteristic 1)
- (b) Berry: maximum diameter (characteristic 29)
- (c) Berry: shape in longitudinal section (characteristic 30)
- (d) Berry: colour group (characteristic 34)

5. Trial designs and growing conditions

The minimum duration of tests will normally be two growing cycles if the results on distinctness and uniformity are conclusive. 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:

As a minimum, each test should include a total of 10 plants. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

All observations determined by measurement or counting should be made on 10 plants or parts taken from each of 10 plants during flowering time.

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The test should normally be conducted at one place.

The test should be carried out in the open, under conditions ensuring normal growth.

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

For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% with an acceptance probability of at least 95% should be applied.

For a sample size between 6 and 35 plants for vegetatively propagated varieties, only 1 off-type is allowed.

For the assessment of uniformity of seed propagated open pollinated and hybrid varieties, relative uniformity standards should be applied.

c) Stability

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

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IV - REPORTING OF RESULTS

After each growing cycle 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 one growing cycle but in some cases two or more growing cycles 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 and final report shall be sent by the Examination Office to the CPVO.

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ANNEXES TO FOLLOW

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	 (a) – (b) See explanations on the Table of characteristics (+) See explanations on the Table of characteristics QL Qualitative characteristic QN Quantitative characteristic PQ Pseudo-qualitative characteristic 	
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ANNEX II

Technical questionnaire

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ANNEX I TABLE OF CHARACTERISTICS

CPVO N°	UPOV N°		Characteri	stics	Examples	Note
1.	1.		Plant: habit			
				upright	Excellent Flair	1
				moderately spreading	Apricot Beauty	2
				strongly spreading	Flamingo Fantasy	3
2. QN	2. QN	(a)	Plant: height			
				short	Bosajol	3
				medium	Excellent Flair	5
				tall	Kolmfa	7
3. QN	3. QN	(a)	Plant: width			
				narrow	Bosajol	3
				medium	Early Fruit	5
				broad	Kolmfa	7
4. QL	4. QL	(a)	Plant: reddish or brownish coloration of branches of current year's growth			
				absent		1
				present		9
5. QN	5. QN	(a)	Plant: intensity of coloration of branches of current year's growth			
				weak	Bosaney	3
				medium	Kolmgia	5
				strong	Excellent Flair	7

CPVO N°	UPOV N°		Characteris	stics	Examples	Note
6. QN	6. QN	(a)	Leaf: length			
				short	Magical Green	3
				medium	Kolmgia	5
				long	Bosajum	7
7. QN	7. QN	(a)	Leaf: width			
				narrow	Kolmfa	3
				medium	Bosaenv	5
				broad	Kolmbeau	7
8. QN	8. QN	(a)	Leaf: intensity of green colour			
				light	Pamala	3
				medium	Red Condor	5
				dark	Bosaenv	7
9. QL	9. QL	(a)	Leaf: variegation			
				absent		1
				present		9
10. QL	10. QL	(a)	Young leaf: reddish or brownish coloration			
				absent		1
				present		9
11. QN	11. QN	(a)	Young leaf: intensity of reddish or brownish coloration			
				weak	Esmgrape	3
				medium	Bosaswe	5
				strong	Albury Purple, Esmmayor	7

CPVO N°	UPOV N°		Character	istics	Examples	Note
12. QN	12.	(a)	Leaf: cross section			
				convex		3
				flat		5
				concave		7
13. QN	13. QN	(a)	Leaf: angle in relation to branch			
				very acute		1
				moderately acute		2
				weakly acute to right- angle		3
14. PQ	14. PQ	(a)	Leaf: shape of base			
				cordate		1
				truncate		2
				rounded		3
15. PQ	15. PQ	(a)	Leaf: shape of apex			
				acute	Kolmbeau	1
				obtuse	Early Fruit	2
				rounded	Bosaelec	3
16. QL	16. QL	(a)	Leaf: odor			
				absent		1
				present		9
17. (+) QN	17. (+) QN	(b)	Inflorescence: length			
				short	Esmfashion	3
				medium	Bright Blossom	5
				long	Bosabel	7

CPVO N°	UPOV N°		Character	ristics	Examples	Note
18. (+)	18. (+)	(b)	Inflorescence: width			
QN	QN			narrow	Bosasu	3
				medium	Excellent Flair	5
				broad	Kolmgia	7
19. (+)	19. (+)	(b)	Inflorescence: profile of distal part	f		
QN	QN			concave	Bosafan	1
				flat	Excellent Flair	2
				convex	Kolmfa	3
20. QN	20. QN	(a)	Flower: size			
				small	Bosaswe	3
				medium	Excellent Flair	5
				large	Belmount	7
21. (+)	21. (+)	(b)	Sepal: length			
QN	QN			short		3
				medium		5
				long		7
22. (+)	22. (+)	(b)	Sepal: width			
QN	QN			narrow		3
				medium		5
				broad		7
23. QL	23. QL	(b)	Sepal: presence of reddish or brownish coloration			
				absent		1
				present		9

CPVO N°	UPOV N°		Characteri	stics	Examples	Note
24. QN	24. QN	(b)	Sepal: intensity of reddish or brownish coloration			
				weak		3
				medium		5
				strong		7
25. QN	25. QN	(b)	Sepal: recurvature			
				absent or weak		1
				moderate		2
				strong		3
26. PQ	26. PQ	(a)	Anther: colour			
				yellow	Red Condor	1
				orange	Early Fruit	2
27. QN	27. QN	(a)	Style: length			
				short		3
				medium		5
				long		7
28. QN	28. QN		Inflorescence: number of berries			
				few	Rosemary	3
				medium	Bosajum	5
				many	Excellent Flair	7
29. QN	29. QN	(b)	Berry: maximum diameter			
				small	Opalo	3
				medium	Bosajol	5
				large	Kolmgia	7

CPVO N°	UPOV N°		Characteri	istics	Examples	Note
30. PQ	30. PQ	(b)	Berry: shape in longitudinal section			
				narrow elliptic	Magical Green	1
				elliptic	Bright Blossom	2
				broad elliptic	Kolmbeau	3
				round	Kolmsweet	4
				narrow ovate	Rosemary	5
				ovate	Bosafan	6
				broad ovate	Kolmgia	7
31. (+) QL	31. (+) QL	(b)	Berry: shape in cross section			
				rounded		1
				triangular		2
32. QL	32. QL	(b)	Berry: indentation of apex			
				absent		1
				present		9
33. PQ	33. PQ	(b)	Berry: surface (apex excluded)			
				smooth	Bosaelec	1
				grooved	Rosemary	2
				indented		3

CPVO N°	UPOV N°		Character	istics	Examples	Note
34. PQ	34. PQ	(b)	Berry: colour group			
				white		1
				cream	Bonaire	2
				green	SJK 100	3
				brownish green	Kolmgreen	4
				yellow	Bosaarc	5
				orange		6
				light pink	Esmamber	7
				pink	Kolmsweet	8
				dark pink		9
				red pink	SJK 93	10
				orange red	Esmmayor	11
				light red	Bright Blossom	12
				red	Bosapin	13
				dark red		14
				red purple	Pamela	15
				red brown	Esmmarron	16
				purple brown	Autum Blaze, Excellent Flair	17
				brown		18
				grey brown		19
35. (+) PQ	35. (+) PQ	(b)	Berry: main colour			
				RHS Colour Chart (indicate reference number)		

CPVO N°	UPOV N°		Characteris	stics	Examples	Note
36. QN	36. QN	(b)	Berry: width of whitish or greenish band at base			
				absent or narrow	Kolmred	1
				medium	Belmount	2
				broad	Bosaapol, Kolmblac	3
37.	37.	(b)	Berry: glossiness			
QN	QN			weak	H. hircinum, SJK 94	1
				medium	Kolmfa	2
				strong	Bosaapol	3

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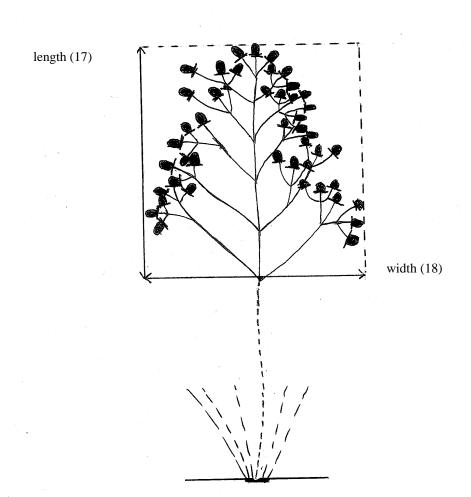
EXPLANATIONS AND METHODS

Explanations covering several characteristics

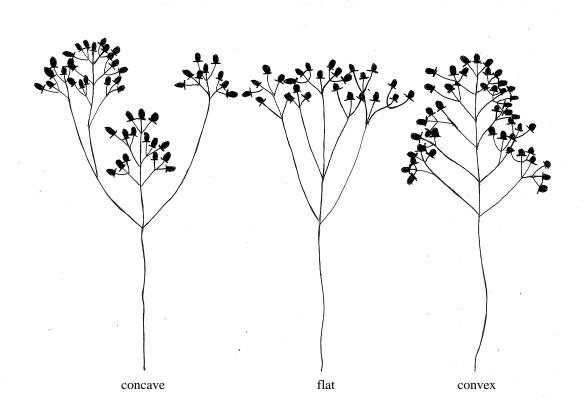
- (a) characteristics which should be observed at full flowering
- (b) characteristics which should be observed when the berries are at their full colour (harvest time)

Explanations for individual characteristics

Ad 17 and 18: Inflorescence: length (17), width (18)



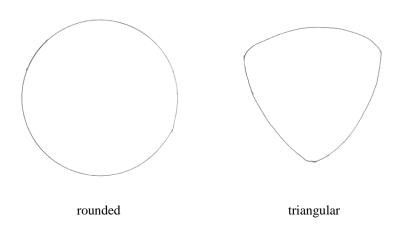
Ad. 19: Inflorescence: profile of distal part



Ads. 21 and 22: Sepal: length (21) and width (22)

The largest sepal is to be observed.

Ad. 31: Berry: shape in cross section



Ad. 35: Berry: main colour

It may not be possible to complete characteristic 35 if the colour does not correspond to a reference number in the RHS Colour Chart.

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Literature

H.J. van Laar. Hypericum - Hertshooi, het in Nederland gekweekte sortiment, Dendroflora Nr 33, 1996, pag. 27- 56. Printed by: Koninklijke Vereniging voor Boskoopse Culturen & Nederlandse Dendrologische Vereniging. ISSN: 0374-7247

ANNEX II



European Union Community Plant Variety Office

		TECHNICAL QUESTIONN	JAIRE
	Please answer all q	a connection with an application for Couestions. A question without any answers. In cases where a field / question is not	er will lead to a non-attribution
1.	Botanical taxon: Name common name:	of the genus, species or sub-speci	es to which the variety belongs and
		Hypericum L.	
		HYPERICUM	
	Species	Hypericum hircinum L.	[]
		Hypericum androsaemum L.	[]
		Hypericum x inodorum Mill.	[]
	Other (indicate)		
2.		nd address(es), phone and fax nu ldress of the procedural representa	nmber(s), e-mail address, and where ative
	•••••		
3.	Variety denomination		
	a) Where appropriate prop	posal for a variety denomination:	
	•••••		
	b) Provisional designation	n (breeder's reference):	
	•••••		

1.1 O	rigin
(a)	Seedling (indicate parent varieties) []
(b)	Mutation (indicate parent variety) []
(c)	Discovery (indicate where, when and how the variety has been developed): []
(d)	Other (please specify)
••••	
•••	
1.2 M	ethod of propagation
(a)	Cuttings
(b)	In vitro propagation []
(c)	Seed []
(d)	Other (please specify):

	Other	r information			
<u>In 1</u>	he ca	se of seed propagated	l varieties method of produc	ction:	
	(a)	Self-pollinated		[]	
	(b)	Cross-pollinated (ple	ease give details)	[]	
	(c)	Hybrid (please give	details)	[]	
4.4	discov	raphical origin of the vered and developed.	variety: the region and the	country in which the variety	was bred or
			be indicated: (the number		
	teristic	in the CPVO Tech	be indicated: (the number nnical Protocol; please man		
charac	teristic	in the CPVO Tech	nnical Protocol; please man		
charac	teristic ponds)	c in the CPVO Tech	nnical Protocol; please man	k the state of expression	which best
charac corresp	teristic ponds)	Characteris	nnical Protocol; please man	k the state of expression	which best
charac corresp	teristic ponds)	Characteris	nnical Protocol; please man	Example varieties	which best Note
charac corresp	teristic ponds)	Characteris	nnical Protocol; please man	Example varieties Excellent Flair	Note Note
charac corresp	Plan	Characteris	stics upright moderately spreading	Example varieties Excellent Flair Apricot Beauty	Note 1 [] 2 []
charac corres	Plan	Characteris t: habit	stics upright moderately spreading	Example varieties Excellent Flair Apricot Beauty	Note 1 [] 2 []
charac corres	Plan	Characteris t: habit	upright moderately spreading strongly spreading	Example varieties Excellent Flair Apricot Beauty Flamingo Fantasy	Note

	Charact	teristics	Example varieties	Note
5.3	Berry: shape in longitud	linal section		
(30)		narrow elliptic	Magical Green	1[]
		elliptic	Bright Blossom	2[]
		broad elliptic	Kolmbeau	3[]
		round	Kolmsweet	4[]
		narrow ovate	Rosemary	5[]
		ovate	Bosafan	6[]
		broad ovate	Kolmgia	7[]
5.4 (34)	Berry: colour group			
` ,		white		1[]
		cream	Bonaire	2[]
		brownish green	Kolmgreen	3[]
		yellow	Bosaarc	4[]
		orange		5[]
		light pink	Esmamber	6[]
		pink	Kolmsweet	7[]
		dark pink		8[]
		red pink	SJK 93	9[]
		orange red	Esmmayor	10[]
		light red	Bright Blossom	11[]
		red	Bosapin	12 []
		dark red		13 []
		red purple	Pamela	14[]
		red brown	Esmmarron	15 []
		purple brown	Autum Blaze, Excellent Flair	16[]
		brown		17 []
		green	SJK 100	18[]
		grey brown		19[]

6.	Similar varieties an	d differences from these vari	ieties:	
	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
••••	•••••			
••••	•••••	•••••	••••••	•••••
••••	•••••	•••••	•••••	•••••
••••				•••••
••••	•••••			
1)	In the case of identica	d states of expressions of both	varieties, please indicate th	e size of the difference
7.	Additional informa	tion which may help to distir	nguish the variety	
A re	epresentative printed-	out colour photo of the variet	y must be added to the ted	chnical questionnaire.
	7.1 Resistance to	pests and diseases		
	7.2 Special condi	itions for the evenineties of	the wewister	
	7.2 Special condi	itions for the examination of	the variety	
	[] YES, ple	ease specify		
	[]NO			
	7.3 Other inform	nation		
	[] YES, ple	ease specify		
	F 1110			
	[] NO			
8.	GMO-information	required		
	The variety represent Directive 2001/18/E	ts a Genetically Modified Org C of 12/03/2001.	ganism within the meaning	of Article 2(2) of Council
	[]YES	[] NO		
	technical examination	a copy of the written attesta on of the variety under Article nent according to the norms of	es 55 and 56 of the Basic l	Regulation does not pose

formation on plant material to be examined		
9.1 The expression of a characteristic or several characterifactors, such as pests and disease, chemical treatment (e.g. g of tissue culture, different rootstocks, scions taken from different rootstocks).	rowth retarda	ants or pesticides), e
9.2 The plant material should not have undergone any treatment of the characteristics of the variety, unless the competer treatment. If the plant material has undergone such treatment given. In this respect, please indicate below, to the best of you be examined has been subjected to:	nt authoritie t, full details	s allow or request of the treatment m
(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	[] Yes	[] No
(b) Chemical treatment (e.g. growth retardant or pesticide)	[] Yes	[] No
(c) Tissue culture	[] Yes	[] No
(d) Other factors	[] Yes	[] No
Please provide details of where you have indicated "Yes":		

Signature

Date

[End of document]

Name