

UPOV

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF
PLANTS**
GENEVA

DRAFT**DOCK**

UPOV Code: RUMEX

Rumex patientia L. x *Rumex tianshanicus* A. Los.,
Rumex acetosa L.

GUIDELINES**FOR THE CONDUCT OF TESTS****FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

prepared by an expert from Ukraine

to be considered by the

Technical Working Party for Vegetables

at its forty-second session to be held in Cracow, Poland, from June 23 to 27, 2008

*Alternative Names:**

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Rumex patientia</i> L. x <i>Rumex tianshanicus</i> A. Los., <i>Rumex acetosa</i> L.	Dock, Golden Sorrel	Oseille	Sauerampfer	Acedera común

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

ASSOCIATED DOCUMENTS

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

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

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Rumex patientia* L. x *Rumex tianshanicus* A. Los. and *Rumex acetosa* L. of the family *Poligonaceae*.

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:

50 g of seed.

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

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

2.6 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*

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

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*

3.3.1 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.

3.3.2 Stage of development for the assessment

The optimum stage of development for the assessment of each characteristic is indicated by a number in the second column of the Table of Characteristics. The stages of development denoted by each number are described at the end of Chapter 8.

3.3.3 Type of observation

The recommended method of observing the characteristics is indicated by the following key in the second column of the Table 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.

3.4 Test Design

3.4.1 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.

3.4.2 Each test should be designed to result in a total of at least 60 plants, which should be divided between two or more replicates. The varieties should be grouped on the most distinct morphological characteristics. The test for distinctness is conducted in the field by way of comparison with the varieties of common knowledge, collections of which is laid out beside.

The first growing cycle: type of plot A (see Table below) with a total number of not less than 60 plants divided into two replicates.

3.5 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations should be made on 60 plants or parts of plants taken from each of 60 plants.

3.6 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.

4.2 *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 For the assessment of uniformity on a row plot, a population standard of 2.0% and an acceptance probability of at least 90% should be applied. In the case of a sample size of 60 plants, 3 off-types are allowed. In confirmation of test's reliability for uniformity, the results taken from panicles plots are considered.

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 tested, either by growing a further generation, or by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the previous 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: height (characteristic 1)
- (b) Plant: time of bolting (characteristic 23)
- (c) Panicle: color (characteristic 28)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

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*

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.

6.3 *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*

(*) Asterisked characteristic – see Chapter 6.1.2

QL: Qualitative characteristic – see Chapter 6.3

QN: Quantitative characteristic – see Chapter 6.3

PQ: Pseudo-qualitative characteristic – see Chapter 6.3

MG, MS, VG, VS: – See Chapter 3.3.2

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

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

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. VG Plant: height (* (+)						
QL	short				Odesckiy 17, Shirokolistiy	3
	medium				Rumex OK-2	5
	long				Biekor-1, Kyivskiy ultra	7
2. VG Plant: attitude (* (+)						
QN	erect				Biekor-1, Kyivskiy ultra	1
	semi erect				Shirokolistiy	3
	horizontal				Odesckiy 17, Rumex OK-2	5
3. VG Leaf: intensity of green color						
QN	light				Kyivskiy ultra	3
	medium				Biekor-1	5
	dark				Odesckiy 17, Shirokolistiy	7
4. MS Rosette leaf: length (* (+) VG of blade						
QN	short				Odesckiy 17	3
	medium				Kyivskiy ultra, Rumex OK-2	5
	long				Biekor-1	7
5 MS Rosette leaf: width VG of blade (+)						
QN	narrow				Odesckiy 17	3
	medium				Rumex OK-2, Shirokolistiy	5
	broad				Biekor-1, Kyivskiy ultra	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota	
6.	MS	Rosette leaf: ratio					
	VG	width/ length					
QN	small				Odesckiy 17	3	
	medium				Rumex OK-2, Shirokolistiy	5	
	large				Biekor-1, Kyivskiy ultra	7	
7.	VG	Rosette leaf: shape					
		(excluding basal lobes)					
QL	lanceolate				Kyivskiy ultra	1	
	elliptic				Rumex OK-2	2	
	round				Odesckiy 17, Shirokolistiy	3	
8.	VG	Rosette leaf: shape					
		of apex					
QL	acute				Kyivskiy ultra	1	
	obtuse				Odesckiy 17	2	
	rounded				Shirokolistiy	3	
9.	VG	Rosette leaf:					
(+)		undulation of					
		margin					
QL	absent or weak				Kyivskiy ultra, Odesckiy 17	1	
	medium				Biekor-1	2	
	strong				Rumex OK-2	3	

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
10. MS	Rosette leaf: length					
	VG of petiole					
(+)						
QN	short				Odesckiy 17, Shirokolistiy	3
	medium				Kyivskiy ultra, Rumex OK-2	5
	long				Biekor-1	7
11. VS	Stem: shape in					
	cross-section					
(+)						
PQ	rectangular				Odesckiy 17	1
	round—oval				Shirokolistiy	2
	round				Biekor-1, Kyivskiy ultra	3
	polyhedral				Rumex OK-2	4
12. VS	Stem: pubescence					
QL	weak				Kyivskiy ultra, Odesckiy 17	3
	medium				Biekor-1	5
	strong				Rumex OK-2	7
13. VG	Stem: diameter					
(+)						
QN	small				Odesckiy 17, Shirokolistiy	3
	medium				Kyivskiy ultra, Rumex OK-2	5
	large				Biekor-1	7
14. MS	Stem: a number of					
	internodes					
QN	few				Kyivskiy ultra	3
	medium				Biekor-1	5
	many				Odesckiy 17, Shirokolistiy	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
15. VG	Stem: anthocyanin coloration					
QL	absent				Odesckiy 17, Shirokolistiy	1
	present				Biekor-1, Kyivskiy ultra, Rumex OK-2	9
16. VG	Stem: intensity of anthocyanin coloration					
QN	light				Biekor-1, Kyivskiy ultra	3
	medium				Rumex OK-2	5
	dark				Biekor-1	7
17. VG	Stem leaf: length of MS blade					
QN	short				Odesckiy 17	3
	medium				Shirokolistiy, Rumex OK-2	5
	long				Biekor-1, Kyivskiy ultra	7
18. VG	Stem leaf: width of MS blade					
QN	narrow				Odesckiy 17	3
	medium				Kyivskiy ultra, Rumex OK-2	5
	broad				Biekor-1, Shirokolistiy	7
19. MS	Stem leaf: ratio width/length of blade					
QN	small				Odesckiy 17	3
	medium				Rumex OK-2, Shirokolistiy	5
	large				Biekor-1, Kyivskiy ultra	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
20. VG	Stem leaf: length of					
MS	petiole					
(+)						
QN	short				Odesckiy 17, Shirokolistiy	3
	medium				Kyivskiy ultra, Rumex OK-2	5
	long				Biekor-1	7
21. VG	Stem leaf: surface					
QN	smooth				Kyivskiy ultra, Odesckiy 17	3
	moderately rough				Biekor-1, Shirokolistiy	5
	rough				Rumex OK-2	7
22. VG	Plant: tendency to					
	bolt in the year of					
	sowing					
QL	absent				Kyivskiy ultra, Rumex OK-2,	1
	present				Odesckiy 17, Shirokolistiy	9
23. MS	Plant: time of					
(*) MG	bolting					
QN	very early				Odesckiy 17, Shirokolistiy	1
	early				Kyivskiy ultra	3
	medium				Biekor-1	5
	late				Rumex OK-2	7
24. MS	Plant: number of					
VG	flowering stems					
QN	few				Odesckiy 17, Shirokolistiy	3
	medium				Rumex OK-2	5
	many				Biekor-1, Kyivskiy ultra	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
25.	MS Time of flowering					
	MG					
QN	early				Biekor-1, Odesckiy 17	3
	medium				Kyivskiy ultra, Shirokolistiy	5
	late				Rumex OK-2	7
26.	VG Panicle: type					
	(*)					
	(+)					
QL	botryoidally				Rumex OK-2, Shirokolistiy	1
	composite				Biekor-1, Kyivskiy ultra	2
	clustered				Odesckiy 17	3
27.	MS Panicle: length					
	VG					
	(+)					
QN	short				Odesckiy 17, Shirokolistiy	3
	medium				Kyivskiy ultra	5
	long				Biekor-, Rumex OK-2	7
28.	VG Panicle: color					
	(*)					
PQ	greenish pink				Kyivskiy ultra	1
	brown pink				Odesckiy 17, Shirokolistiy	2
	brown				Biekor-1	3
	red brown				Rumex OK-2	4
29.	MS Seeds: time of					
	MG ripening					
QN	early				Odesckiy 17, Shirokolistiy	3
	medium				Biekor-1, Rumex OK-2	5
	late				Kyivskiy ultra	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
30. VG	Seeds: intensity of brown color					
QN	light					3
	medium				Biekor-1, Kyivskiy ultra	5
	dark				Odesckiy 17	7
31. VG	Seed: glossiness					
QL	absent				Biekor-1, Kyivskiy ultra, Rumex OK-2	1
	present				Odesckiy 17, Shirokolistiy	9
32. MS	Seed: 1000 kernels weight					
QN	low				Odesckiy 17, Shirokolistiy	3
	medium				Kyivskiy ultra	5
	height				Biekor-1, Rumex OK-2	7

8. Explanations on the Table of Characteristics

8.1 *Explanations for individual characteristics*

Ad. 1: Plant: height



3
short



5
medium



7
long

Ad. 2: Plant: attitude



1
erect



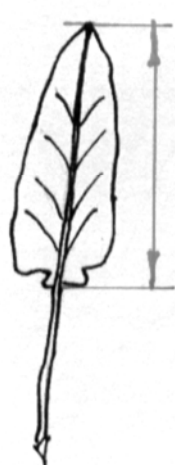
3
semi erect



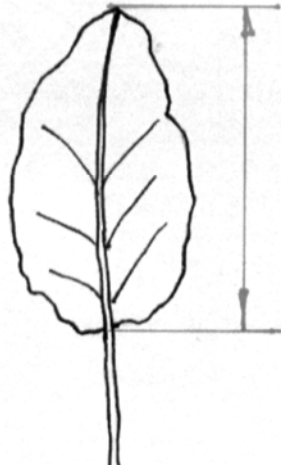
5
horizontal

Ad. 4: Rosette leaf: length of blade

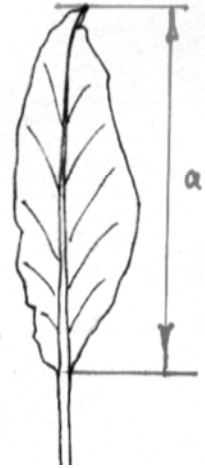
(a - length)



3
short



5
medium



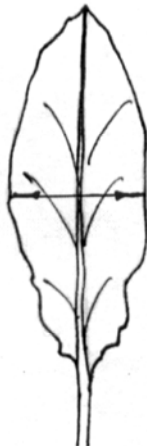
7
long

Ad. 5: Rosette leaf: width of blade

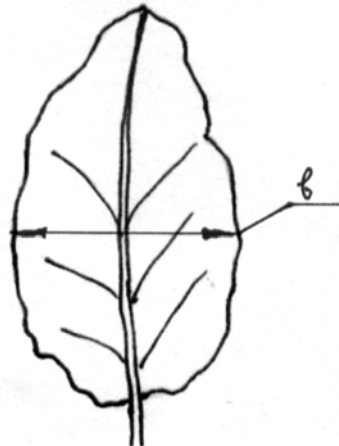
(β - width)



3
narrow

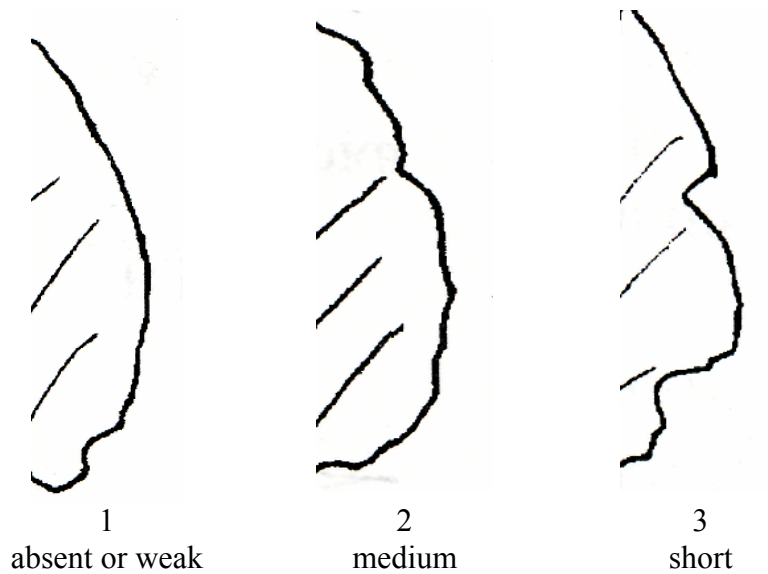


5
medium

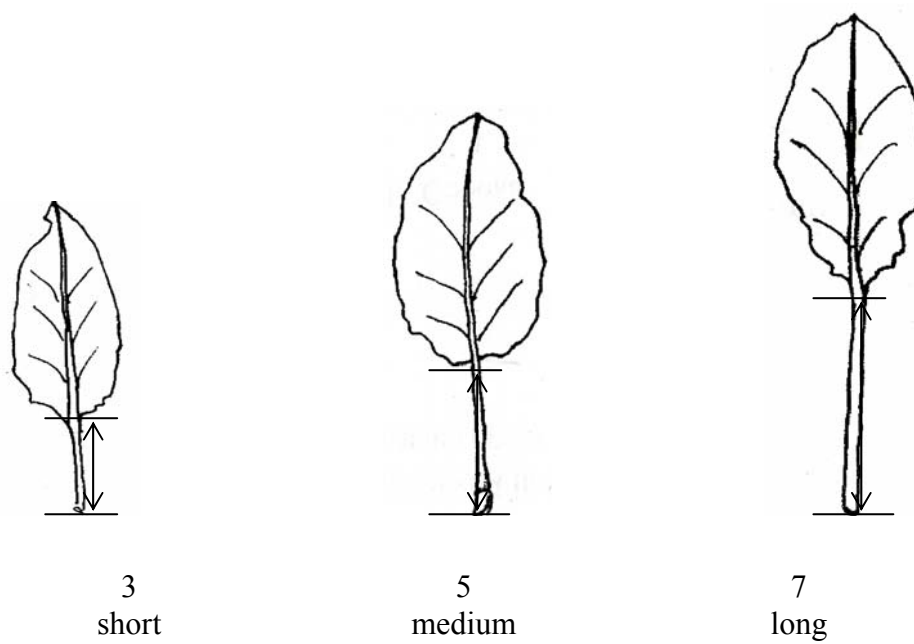


7
broad

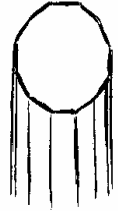
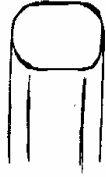
Ad. 9: Rosette leaf: undulation of margin



Ad. 10: Rosette leaf: length of petiole



Ad. 11. Stem: shape in cross-section



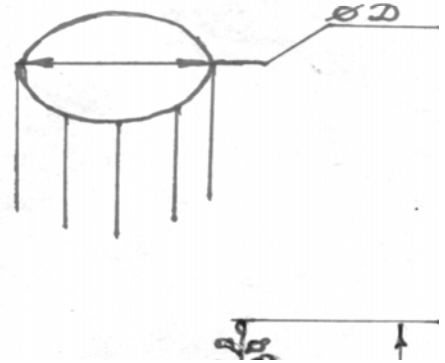
1
rectangular

2
round - oval

3
round

4
polyhedral

Ad.13: Stem: diameter



3
small

5
medium

7
large

Ad. 20: Stem leaf: length of petiole

Look Ad. 10

Ad. 26: Panicle: type



1
botryoidally



2
composite



3
clustered

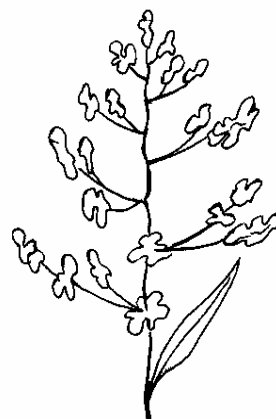
Ad. 27: Panicle: length



3
short



5
medium



7
long

9. Literature

Dong Baodi, Liu Satoshi Yamada, Hideyasu Fujiama, Sunao Yamazaki, Toshiaki Tanado, Li Dengshum, 1999: Study of the introduction of Rumex K-1 hybrid of sorrel in saline soil.6.8.

Goodwin, B.C., 1970: Biological stability//Towards a theoretical biology. Aldine. Chicago,

10. Technical Questionnaire

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

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

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

- (a) controlled cross []
(please state parent varieties)
- (b) partially known cross []
(please state known parent variety(ies))
- (c) totally unknown cross []

4.1.2 Mutation []
(please state parent variety)

4.1.3 Discovery []
(please state where, when and how developed)

4.1.4 Other []
(please provide details)

4.2 Method of propagating the variety

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:
<p>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).</p>		
Characteristics	Example Variety	Note
5.1 Plant: height (1)		
short	Odesckiy 17, Shirokolistiy	3[]
medium	Rumex OK-2	5[]
high	Biekor-1, Kyivskiy ultra	7[]
5.2 Plant: attitude (2)		
erect	Biekor-1, Kyivskiy ultra	1[]
semi erect	Shirokolistiy	2[]
horizontal	Odesckiy 17, Rumex OK-2	3[]
5.3 Rosette leaf: length of blade (4)		
short	Odesckiy 17	3[]
medium	Kyivskiy ultra, Rumex OK-2	5[]
long	Biekor-1	7[]
5.4 Plant: time of bolting (23)		
very early	Odesckiy 17, Shirokolistiy	1[]
early	Kyivskiy ultra	3[]
medium	Biekor-1	5[]
late	Rumex OK-2	7[]
5.5 Panicle: type (26)		
botryoidal	Rumex OK-2, Shirokolistiy	1[]
composite	Biekor-1, Kyivskiy ultra	2[]
clustered	Odesckiy 17	3[]

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
Characteristics	Example Variety		Note
5.6 Panicle: color (28)			
greenish pink	Kyivskiy ultra	1[]	
brown pink	Odesckiy 17, Shirokolistiy	2[]	
brown	Biekor-1	3[]	
red brown	Rumex OK-2	4[]	
<p>6. Similar varieties and differences from these varieties</p> <p><i>Please, use the table and space provided for comments below 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.</i></p>			
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
<i>Example</i>		<i>(example to be inserted) (example to be inserted)</i>	
Comments:			

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

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

Yes [] No []

(If yes, please provide details)

7.2 Special conditions for the examination of the variety

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

Yes [] No []

7.2.2 If yes, please give details:

7.3 Other information

A representative color photograph of the variety should accompany the Technical Questionnaire.

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.

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

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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) | 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".

.....

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]