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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

CORNSALAD *

UPOV Code: VLRNL_LOC
VLRNL_ERI*(Valerianella locusta L. & Valerianella
eriocarpa Desv.)*

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from France**to be considered by the
Technical Working Party for Vegetables at its thirty-ninth session,
to be held in Nitra, Slovakia from June 6 to 10, 2005*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Valerianella locusta</i> L.	Cornsalad, Lambs' Lettuce	Doucette, Mâche	Feldsalat	Lechuga de campo, Hierba de los canónigos
<i>Valerianella eriocarpa</i> Desv.				

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 *Valerianella locusta* L. and *Valerianella eriocarpa* Desv.

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:

20 grams or 20,000 seeds.

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

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

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

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 The recommended method of observing the characteristic 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 Each test should be designed to result in a total of at least 60 plants, which should be divided between two or more 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 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations should be made on 20 plants or parts taken from each of 20 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, a population standard of 1 % and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 60 plants, 2 off-types are] allowed.

4.3 *Stability*

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

4.3.2 Where appropriate, or in cases of doubt, stability may be 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) Seed size (characteristic 1)
- (b) Seed: shape (characteristic 2)
- (c) Leaf: length (characteristic 5)
- (c) Leaf: shape (characteristic 7)
- (d) Leaf: profile of apical part in longitudinal section (characteristic 10)

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: single measurement of a group of plants or parts of plants – see Chapter 3.3.2

MS: measurement of a number of individual plants or parts of plants – see Chapter 3.3.2

VG: visual assessment by a single observation of a group of plants or parts of plants – Chapter 3.3.2

VS: visual assessment by observation of individual plants or parts of plants” –see Chapter 3.3.2

(+) See Explanations on the Table of Characteristics in Chapter 8

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

	English	français	deutsch	Español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
1. (* (*)	Seed: size	Graine: grosseur	Samen: Grösse	Semilla: tamaño		
QN MG	small	petite	klein	pequeña	D'Italie à feuille de laitue, Deutscher	3
	medium	moyenne	mittel	mediana	Vit	5
	large	grosse	groß	grande	A grosse graine	7
2. (* (+)	Seed: shape	Graine: forme	Samen: Form	Semilla: forma		
QL VG	globular without collar	globuleuse et sans collerette	rund und ohne Kragen	globulosa y sin collar	Deutscher	1
	one side convex with collar	un côté convexe et avec collerette	eine Seite konvex, mit Kragen	un lado convexo y con collar	D'Italie à feuille de laitue	2
3. (* (*)	Plant: attitude	Plante: port	Pflanze: Haltung	Planta: porte		
QN VC	erect	dressé	aufrecht	erecto	Elan	1
	semi-erect	demi-dressé	halbaufrecht	semierecto	Verte de Louviers	3
	horizontal	horizontal	waagerecht	horizontal	Valgros	5
4. (* (*)	Plant: diameter	Plante: diamètre	Pflanze: Durchmesser	Planta: diámetro		
QN MG	very small	très petit	sehr klein	muy pequeño		1
	small	petit	klein	pequeño	Coquille de Louviers	3
	medium	moyen	mittel	medio	Verte de Louviers	5
	large	grand	groß	grande	Verte de Cambrai	7
	very large	très grand	sehr groß	muy grande	A grosse graine	9

	English	français	deutsch	Español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
5. (*)	Leaf: length	Feuille: longueur	Blatt: Länge	Hoja: longitud		
QN MS	short	courte	kurz	corta	Coquille de Louviers	3
	medium	moyenne	mittel	media	Verte à coeur plein 2	5
	long	longue	lang	larga	A grosse graine	7
6. (*)	Leaf: width	Feuille: largeur	Blatt: Breite	Hoja: anchura		
QN MS	narrow	étroite	schmal	estrecha	Verte d'Etampes	3
	medium	moyenne	mittel	media	A grosse graine, Verte de Cambrai	5
	broad	large	breit	ancha	Palace, Rodion	7
6a.	Ratio: length/width (proposed by DE)					
	small					
	medium					
	large					
7. (*) (+)	Leaf: shape	Feuille: forme	Blatt: Form	Hoja: forma		
PQ VG	elliptic	elliptique	elliptisch	elíptica	Verte de Louviers	1
	obovate	obovale	verkehrt eiförmig	oboval	Verte à coeur plein 2	2
	spatulate	spatulée	spatelförmig	espatulada	A grosse graine	3
8. ✗	Leaf: glossiness	Feuille: brillance	Blatt: Glanz	Hoja: brillo		
QN VG	weak	faible	gering	débil	D'Italie à feuille de laitue	3
	medium	moyenne	mittel	medio	Verte maraîchère	5
	strong	forte	stark	fuerte	Verte de Louviers	7

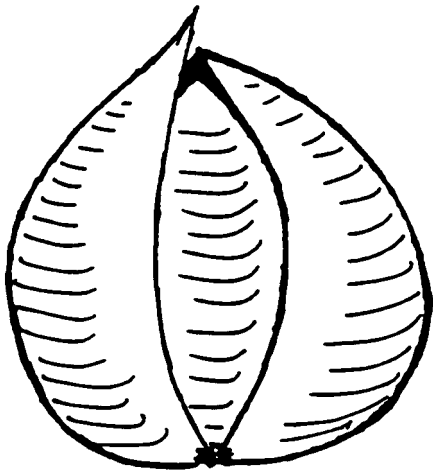
	English	français	deutsch	Español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
9. 9.	Leaf: profile in cross-section	Feuille: profil en section transversale	Blatt: Profil im Querschnitt	Hoja: perfil en sección transversal		
QN VG	concave	concave	konkav	cóncavo		1
	flat	droit	eben	plano	Coquille de Louviers	2
	convex	convexe	konvex	convexo	Verte à coeur plein 2	3
10. (*) (+)	Leaf: profile of apical part in longitudinal section	Feuille: profil de la partie apicale en section longitudinale	Blatt: Profil des apikalen Teiles im Längsschnitt	Hoja: perfil de la zona apical en sección longitudinal		
QN VG	concave	concave	konkav	cóncavo	Coquille de Louviers	1
	flat	droit	eben	plano	Gala, Verte à coeur plein 2	2
	convex	convexe	konvex	convexo	Verte d'Etampes	3
11.	Leaf: torsion	Feuille: torsion	Blatt: Drehung	Hoja: torsión		
QN VG	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil	Dante	3
	medium	moyenne	mittel	media	A grosse graine	5
	strong	forte	stark	fuerte	Topaze	7
12. (*)	Leaf: green color	Feuille: couleur verte	Blatt: Grünfärbung	Hoja: color verde		
QN VG	light	claire	hell	claro	Verte maraîchère	3
	medium	moyenne	mittel	medio	Verte de Rouen	5
	dark	foncée	dunkel	oscuro	Verte à coeur plein 2	7
13.	Leaf: dentation (outer leaves)	Feuille: denticulation (feuilles externes)	Blatt: Zähnung (äussere Blätter)	Hoja: dentado (hojas externas)		
QL VG	absent	absente	fehlend	ausente	A grosse graine, Coquille de Louviers	1
	present	présente	vorhanden	presente	Saphir, Sapina	9

	English	français	deutsch	Español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
14.	Leaf: thickness	Feuille: épaisseur	Blatt: Dicke	Hoja: espesor		
QN VG	thin	mince	dünn	delgado	Valgros	3
	medium	moyen	mittel	medio		5
	thick	épais	dick	grueso	Verte d'Etampes	7
15. (*)	Leaf: prominence of veins	Feuille: importance de la nervation	Blatt: Hervortreten der Aderung	Hoja: prominencia de la nervadura		
QN VG	weak	faible	gering	débil	Verte de Louviers	3
	medium	moyennne	mittel	media	Progress	5
	strong	forte	stark	fuerte	Toendra	7
15a.	Leaf: blistering (proposed by FR)					
QN VG	absent or very weak				A grosse graine, Baron	1
	weak					3
	medium				D'Italie à feuille de laitue, Saphir	5
	strong					7
	very strong					9
16.	Time of beginning of bolting (10% of plants)	Époque de début de montaison (10% des plantes)	Zeitpunkt des Schosbeginns (10% der Pflanzen)	Fecha del comienzo de salida a flor (10% de las plantas)		
QN VG	very early	très précoce	sehr früh	muy precoz	Valgros	1
	early	précoce	früh	precoz	Verte à coeur plein 2	3
	medium	moyenne	mittel	media	Verte d'Etampes	5
	late	tardive	spät	tardía	Baikal	7
	very late	très tardive	sehr spät	muy tardía		9
17.	Flower stem: anthocyanin coloration	Tige: pigmentation anthocyanique	Blütenstiel: Anthocyanfärbung	Tallo: pigmentación antociánica		
QN VG	weak	faible	gering	débil	A grosse graine	3
	medium	moyenne	mittel	media	Valvert	5
	strong	forte	stark	fuerte	Pustade	7

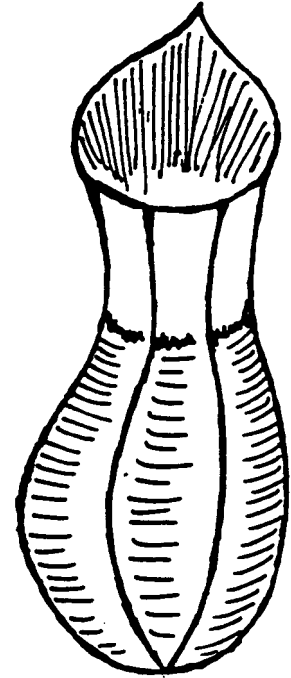
	English	français	deutsch	Español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
18.	Resistance to downy mildew (<i>Peronospora valerianella</i>) (Proposed by FR)					
18.1	Strain 1					
	absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9
18.2	Strain 2					
	absent	absente	fehlend	ausente		1
	present	présente	vorhanden	presente		9

8. Explanations on the Table of Characteristics

Ad. 2: Seed: shape

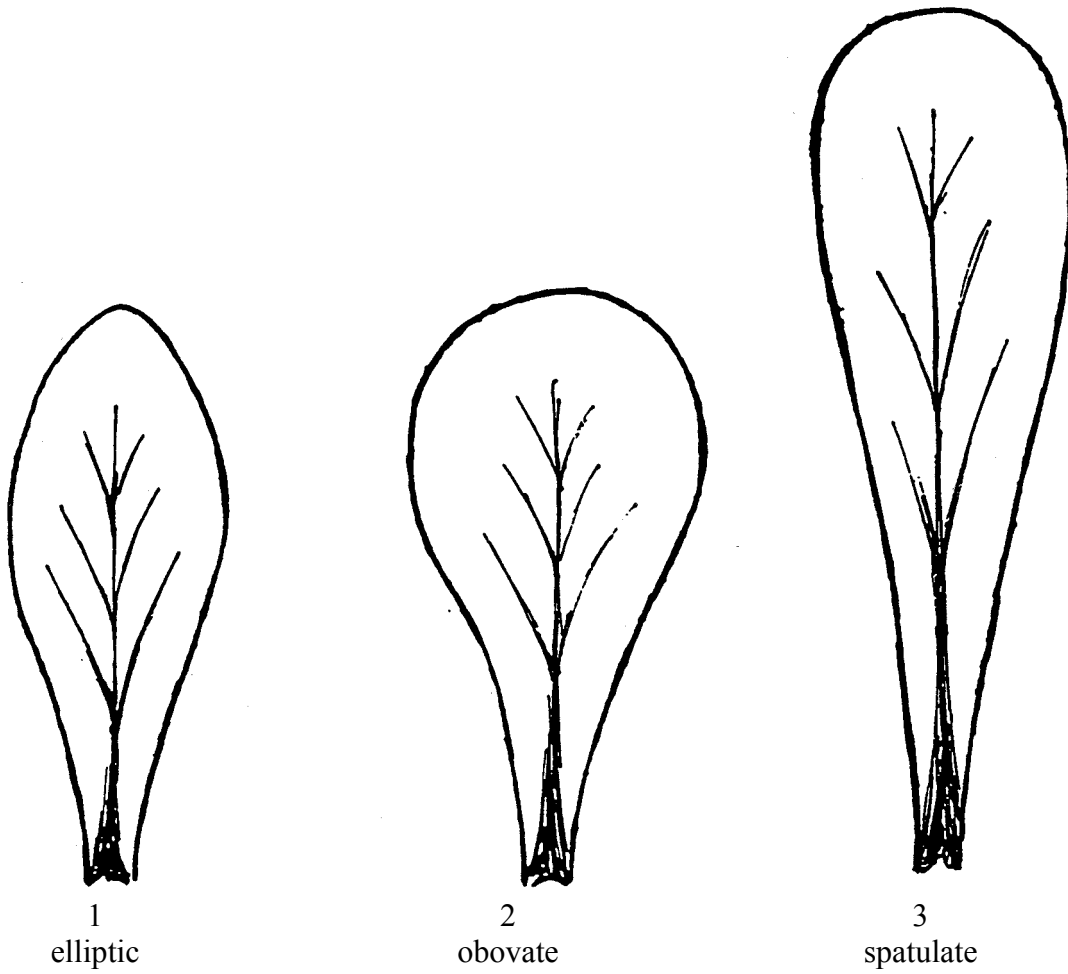


1
globular without collar



2
one side convex with collar

Ad. 7: Leaf: shape



Ad. 18: Resistance to downy mildew (*Peronospora valerianella*)

Resistance to downy mildew, (*Peronospora valerianella*)

- strain 1
- strain 2

Varieties	Strains	Strain 1 (Cambrai)	Strain 2 (Gala)
Verte de Cambrai		S	R
Verella		R	S
Gala		R	S

S = Susceptible, R = Résistant.

9. Literature

No specific literature

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 (please indicate the relevant species)		
1.1.1 Botanical name	<input type="text" value="Valerianella locusta L.."/>	
1.1.2 Common name	<input type="text" value="Cornsalad, Lambs' Lettuce"/>	[]
1.2.1 Botanical name	<input type="text" value="Valerianella eriocarpa Desv."/>	
1.2.2 Common name	<input type="text"/>	[]
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:
#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)	unknown cross	[]
4.1.2	Mutation (please state parent variety)	[]
4.1.3	Discovery and development (please state where and when discovered and how developed)	[]
4.1.4	Other (please provide details)"	[]"
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>		
4.2 Method of propagating the variety		
(a)	Self-pollination	[]
(b)	Other (please provide details)"	[]

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

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<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 Varieties	Note	
<p>5.1 Seed: size (1)</p>			
<p>small</p>	<p>D'Italie à feuille de laitue, Deutscher</p>	<p>3[]</p>	
<p>medium</p>	<p>Coquille blonde, Vit</p>	<p>5[]</p>	
<p>large</p>	<p>A grosse graine</p>	<p>7[]</p>	
<p>5.2 Seed: shape (2)</p>			
<p>globular without collar</p>	<p>Deutscher</p>	<p>1[]</p>	
<p>one side convex with collar</p>	<p>D'Italie à feuille de laitue</p>	<p>2[]</p>	
<p>5.3 Leaf: length (5)</p>			
<p>short</p>	<p>Coquille de Louviers</p>	<p>3[]</p>	
<p>medium</p>	<p>Verte à coeur plein 2</p>	<p>5[]</p>	
<p>long</p>	<p>A grosse graine</p>	<p>7[]</p>	
<p>5.4 Leaf: shape (7)</p>			
<p>elliptic</p>	<p>Verte de Louviers</p>	<p>1[]</p>	
<p>obovate</p>	<p>Gala, Verte à coeur plein 2</p>	<p>2[]</p>	
<p>spatulate</p>	<p>A grosse graine</p>	<p>3[]</p>	
<p>5.5 Leaf: profile of the apical part in longitudinal section (10)</p>			
<p>concave</p>	<p>Coquille blonde</p>	<p>1[]</p>	
<p>flat</p>	<p>Gala, Verte à coeur plein 2</p>	<p>2[]</p>	
<p>convex</p>	<p>Verte d'Etampes</p>	<p>3[]</p>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
Characteristics	Example Varieties	Note	
5.6 Leaf: green color (12)			
light	Verte maraîchère	3	[]
medium	Verte de Rouen	5	[]
dark	Verte à coeur plein 2	7	[]
<p>6. Similar varieties and differences from these varieties</p> <p><i>Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.</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
Rodion	Leaf: width	broad	medium
<p>Comments:</p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>#7. Additional information which may help in the examination of the variety</p> <p>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?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.2 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes [] No []</p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p>		
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [] No []</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [] No []</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>		

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>9. Information on plant material to be examined or submitted for examination.</p> <p>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.</p> <p>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:</p> <table><tbody><tr><td>(a) Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes []</td><td>No []</td></tr><tr><td>(b) Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes []</td><td>No []</td></tr><tr><td>(c) Tissue culture</td><td>Yes []</td><td>No []</td></tr><tr><td>(d) Other factors</td><td>Yes []</td><td>No []</td></tr></tbody></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p>			(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []	(b) Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []	(c) Tissue culture	Yes []	No []	(d) Other factors	Yes []	No []
(a) Microorganisms (e.g. virus, bacteria, phytoplasma)	Yes []	No []												
(b) Chemical treatment (e.g. growth retardant, pesticide)	Yes []	No []												
(c) Tissue culture	Yes []	No []												
(d) Other factors	Yes []	No []												
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <table><tbody><tr><td>Applicant's name</td><td colspan="2"><input type="text"/></td></tr><tr><td>Signature</td><td><input type="text"/></td><td>Date <input type="text"/></td></tr></tbody></table>			Applicant's name	<input type="text"/>		Signature	<input type="text"/>	Date <input type="text"/>						
Applicant's name	<input type="text"/>													
Signature	<input type="text"/>	Date <input type="text"/>												

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