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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
 GENEVA

DRAFT

BASIL

(Ocimum basilicum L.)

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names: *

<i>Latin</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Ocimum basilicum L.</i>	Basil	Basilic	Basilikum	Albahaca, Basílico

ASSOCIATED DOCUMENTS

These guidelines should be read in conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (hereinafter referred to as 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 Web site (www.upov.int), for the latest information.]

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1. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Ocimum basilicum* L.

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 in the case of seed-propagated varieties or in the form of young rooted plants in the case of vegetatively propagated varieties.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

Seed-propagated varieties: 6g or at least 4000 seeds

Vegetatively propagated varieties: 30 young rooted plants.

2.4 In the case of seed, 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.

2.5 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 *Duration of Tests*

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

3.2 *Testing Place*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the variety may be tested at an additional place.

3.3 *Conditions for Conducting the Examination*

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.4 *Test Design*

3.4.1 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 In the case of seed -propagated varieties, each test should be designed to result in a total of at least 40 plants, which should be divided between two or more replicates.

3.4.3 In the case of vegetatively propagated varieties, each test should be designed to result in a total of 20 plants, which should be divided between two or more replicates.

3.5 *Number of Plants/Parts of Plants to be Examined*

Unless otherwise indicated, all observations determined by measure or counting should be made on 10 plants or part taken from each of 10 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 minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

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 seed -propagated varieties, the recommendations in the General Introduction should be followed.

4.2.3 For the assessment of uniformity of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 1 off -type is 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 or plant 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 is 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 others 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 trials so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Plant: habit (characteristic 1);
- (b) Leaf blade: anthocyanin coloration of upper side (characteristic 11);
- (c) Flower: color of corolla (characteristic 25).

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 Section 6.1.2

(a) See Explanations on the Table of Characteristics in Chapter 8, Section 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8, Section 8.2

7. TableofCharacteristics /Tableauescaractères/Merkmalstabelle/Tabladecaracteres

English	français	Deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota	
1. (a) Plant:habit (* (+)	Plante:port	Pflanze:Wuchsform	Planta:porte			
rounded	enboule	abgerundet	redondeado	Balkonstar,Biborgömb, Bubikopf, Finvertnaincompact	1	
intermediate	intermédiaire	intermediär	intermedio	Lemon	2	
erect	dresée	aufrecht	erecto	Genovese,Grandvert, Zöldgömb	3	
2. (a) Plant:totalheight (*	Plante:hauteur totale	Pflanze:gesamte Höhe	Planta:alturatotal			
short	courte	niedrig	baja	Finvertnaincompact	3	
medium	moyenne	mittel	media	Lemon	5	
tall	haute	hoch	alta	Genovese,Grandvert	7	
3. (a) Plant:density	Plante:densité	Pflanze:Dichte	Planta:densidad			
loose	lâche	locker	laxa	Grandvert	3	
medium	moyenne	mittel	media	Lemon,Keskenylevelü	5	
dense	dense	dicht	densa	Bubikopf, Finvertnaincompact	7	
4.	Stem:anthocyanin coloration	Tige:pigmentation anthocyannique	Stengel: Anthocyanfärbung	Tallo:pigmentación antociánica		
	absent	absente	fehlend	ausente	Grandvert	1
	present	présente	vorhanden	presente	PurpleRuffles	9
5.	Stem:intensityof anthocyanin coloration	Tige:intensité dela pigmentation anthocyannique	Stengel: Intensitätder Anthocyanfärbung	Tallo:intensidadde lapigmentación antociánica		
	weak	faible	gering	débil	Anis,Cinnamon	3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte	Osmin	7

	English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6.	Stem:hairiness	Tige:pilosité	Stengel:Behaarung	Tallo:vellosidad		
	absent	absente	fehlend	ausente	Afeuillelaitue	1
	present	présente	vorhanden	presente	Lemon	9
7. (+)	Stem:numberof floweringshoots(at fullflowering)	Tige:nombre d'inflorescences (enpleinefloraison)	Stengel:Anzahl blühendeTriebe (beiVollblüte)	Tallo:númerode tallosflorales(enla épocadeplena floración)		
	one	une	einer	uno		1
	three	trois	drei	tres	Feinblattriges	2
	morethanthree	plusdetrois	mehralsdrei	másdetres	TrueThai	3
8. (*) (+)	(a) Leafblade:shape	Limbe:forme	Blattspreite:Form	Limbo:forma		
	broadovate	ovalelarge	breiteiförmig	ovalancho	ItalianLargeLeaf	1
	ovate	ovale	eiförmig	oval	Finvert	2
	elliptic	elliptique	elliptisch	elíptico	Keskenylevelü	3
9. (a)	Leafblade:length	Limbe:longueur	Blattspreite:Länge	Limbo:longitud		
	short	court	kurz	corto	Balkonstar	3
	medium	moyen	mittel	medio	Osmin	5
	long	long	lang	largo	GéantMammouth	7
10. (a)	Leafblade:width	Limbe:largeur	Blattspreite:Breite	Limbo:anchura		
	narrow	étroit	schmal	estrecho	Balkonstar, Keskenylevelü	3
	medium	moyen	mittel	medio	Genovese	5
	broad	large	breit	ancho	Afeuillelaitue	7
11. (*)	(a) Leafblade: anthocyanin colorationofupper side	Limbe: pigmentation anthocyaniquedela facesupérieure	Blattspreite: Anthocyanfärbung derOberseite	Limbo: pigmentación antociánicadelhaz		
	absent	absente	fehlend	ausente	Grandvert,Zöldgömb	1
	present	présente	vorhanden	presente	Biborgömb, PurpleRuffles	9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12. (a) Leafblade: intensity of anthocyanin coloration of upper side	Limbe: intensité de la pigmentation anthocyanique sur la face supérieure	Blattspreite: Intensität der Anthocyanfärbung an der Oberseite	Limbo: intensidad de la pigmentación antocianica del haz		
weak	faible	gering	débil	Rothaut	3
medium	moyenne	mittel	media	Red Rubin	5
strong	forte	stark	fuerte	Purple Ruffles	7
13. (a) Leafblade: distribution of anthocyanin	Limbe: répartition de la pigmentation anthocyanique	Blattspreite: Verteilung der Anthocyanfärbung	Limbo: distribución de la pigmentación antocianica		
few mottles	quelques taches	wenige Flecken	algunas manchas		1
many mottles	nombreuses taches	viele Flecken	muchas manchas		2
total surface	sur toute la surface	gesamte Oberfläche	entoda la superficie	Purple Ruffles	3
14. (a) <u>Varieties without anthocyanin only</u>: Leafblade: green color	<u>Variétés non - anthocyanées seulement</u>: Limbe: couleur verte	<u>Nur Sorten ohne Anthocyanfärbung</u>: Blattspreite: Grünfärbung	<u>Sólo variedades sin pigmentación antocianica</u>: Limbo: color verde		
light	claire	hell	claro	Afeuille de laitue	3
medium	moyenne	mittel	medio	Finvertain, Lemon	5
dark	foncée	dunkel	oscuro	Sweet Thai	7
15. (a) Leafblade: glossiness	Limbe: brillance	Blattspreite: Glanz	Limbo: brillo		
absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Lemon	1
weak	faible	gering	débil	Rothaut	3
medium	moyenne	mittel	medio	Osmin	5
strong	forte	stark	fuerte	Grandvert	7
very strong	très forte	sehr stark	muy fuerte	Purple Ruffles	9

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16. (a) Leafblade: (*) blistering	Limbe: cloûre	Blattspreite: Blasigkeit	Limbo: abullonado		
absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Finvert nain compact	1
weak	faible	gering	débil	Dark Opal, Keskenylevelü	3
medium	moyenne	mittel	medio	Genovese, Grandvert	5
strong	forte	stark	fuerte	Afeuille delaitue, Purple Ruffles	7
17. (a) Leafblade: profile (+) incross section	Limbe: profilen section transversale	Blattspreite: Profil im Querschnitt	Limbo: perfilen sección transversal		
convex	convexe	konvex	convexo	Genovese, Grandvert	1
flat	plat	eben	plano	Dark Opal, Rothaut	2
concave	concave	konkav	cóncavo	Afeuille delaitue	3
v-shaped	env	v-förmig	en forma de v	Lemon	4
18. (a) Leafblade: (*) serration of margin	Limbe: dentelure du bord	Blattspreite: Säbung des Randes	Limbo: serrado del borde		
absent	absente	fehlend	ausente	Grandvert	1
present	présente	vorhanden	presente	Purple Ruffles	9
19. (a) Leafblade: depth of (+) serration	Limbe: profondeur de la dentelure	Blattspreite: Tiefe der Säbung	Limbo: profundidad del serrado		
shallow	peu profonde	flach	poco profundo	Italian Large Leaf	3
medium	moyenne	mittel	medio	Osmin, Rubin	5
deep	profonde	tief	profundo	Purple Ruffles	7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20. (a) Leafblade: undulation of margin	Limbe: ondulation du bord	Blattspreite: Wellung des Randes	Limbo: ondulación del borde		
absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Grandvert	1
weak	faible	gering	débil		3
medium	moyenne	mittel	media	Osmin, Rubin	5
strong	forte	stark	fuerte	Purple Ruffles	7
21. Petiole: length	Pétiole: longueur	Blattstiel: Länge	Pecíolo: longitud		
short	court	kurz	corto	Oase, Osmin	3
short to medium	court à moyen	kurz bis mittel	corto a medio		4
medium	moyen	mittel	medio	Genovese	5
medium to long	moyen à long	mittel bis lang	medio a largo	Afeuille de la tige, Salataltuges	6
long	long	lang	largo		7
22. (+) Flowering stem: average length of internodes (at end of flowering)	Hampe florale: longueur moyenne des entrenœuds (en fin de floraison)	Blütentrieb: durchschnittliche Länge der Internodien (am Blühende)	Tallo floral: longitud media de los entrenudos (al final de la floración)		
short	courts	kurz	corto	Spicy Bush	3
medium	moyens	mittel	medio	Grandvert	5
long	longs	lang	largo	Feinblattriges	7
23. (+) Flowering stem: total length (at end of flowering)	Hampe florale: longueur totale (en fin de floraison)	Blütentrieb: gesamte Länge (am Blühende)	Tallo floral: longitud total (al final de la floración)		
short	courte	kurz	corto	Bubikopf, Finvert nain	3
medium	moyenne	mittel	medio	Genovese	5
long	longue	lang	largo	Lemon	7

English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24.	Flowering stem: hairiness of bracts	Hampe florale: pilosité des bractées	Blütentrieb: Behaarung der Deckblätter	Tallo floral: vellosidad de las brácteas	
	absent	absente	fehlend	ausente	Grandvert 1
	present	présente	vorhanden	presente	Lemon 9
25. (*)	Flower: color of corolla	Fleur: couleur de la corolle	Blüte: Farbe der Krone	Flor: color de la corola	
	white	blanche	weiß	blanca	Genovese, Grandvert 1
	pink	rose	rosa	rosa	Red Rubin 2
	dark violet	violet foncé	dunkelviolett	violeta oscuro	Osmin, Rubin 3
26.	Flower: color of style	Fleur: couleur du style	Blüte: Farbe des Griffels	Flor: color de estilo	
	white	blanc	weiß	blanco	Genovese 1
	light violet	violet clair	hellviolett	violeta claro	Lemon, Opal 2
27. (*)	Time of flowering (10% of plants flowering)	Époque de floraison (10% des plantes en fleur)	Zeitpunkt des Blühbeginns (10% der Pflanzen blühen)	Época de floración (10% de las plantas en floración)	
	very early	très précoce	sehr früh	muy temprana	Lemon 1
	early	précoce	früh	temprana	Keskenylevelü 3
	medium	moyenne	mittel	media	Genovese, Grandvert 5
	late	tardive	spät	tardía	Balkonstar, Rothaut 7
	very late	très tardive	sehr spät	muy tardía	Purple Ruffles 9

8. ExplanationsontheTableofCharacteristics

8.1 *Explanationscoveringseveralcharacteristics*

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

- (a) Plant,leafblade : All observations on the plant and leaf blades should be made on fully developed plants and leaves, respectively.

8.2 *Explanationforindividualcharacteristics*

Ad.1:Plant:habit



1
rounded



2
intermediate

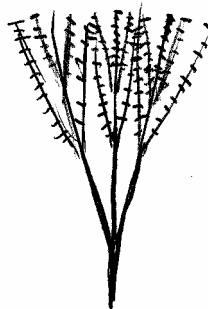


3
erect

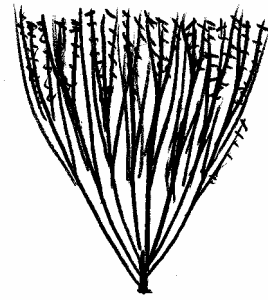
Ad.7:Stem:numberoffloweringshoots(atfullflowering)



1
one

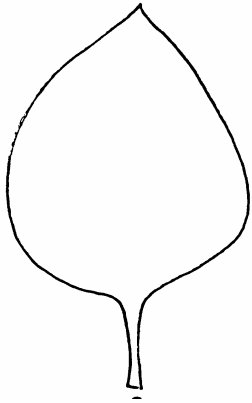


2
three

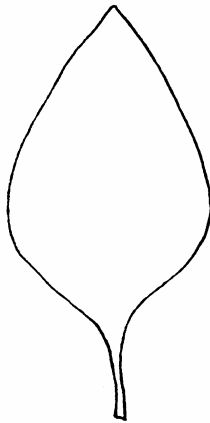


3
morethanthree

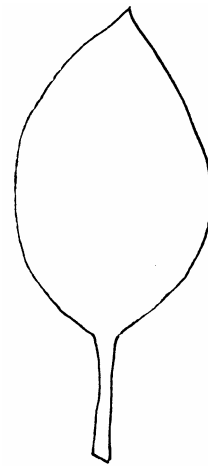
Ad.8:Leafblade :shape



1
broadovate



2
ovate



3
elliptic

Ad.17:Leafblade:profileincrosssection



1
convex



2
flat

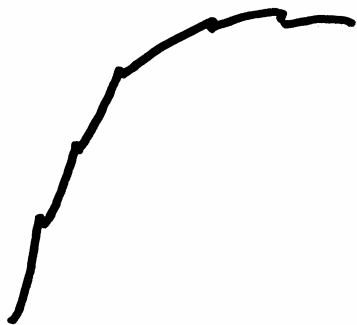


3
concave

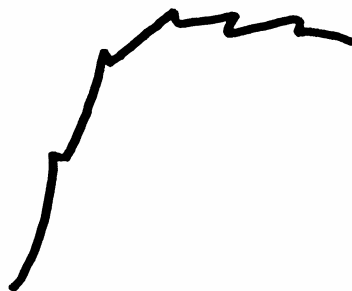


4
v-shaped

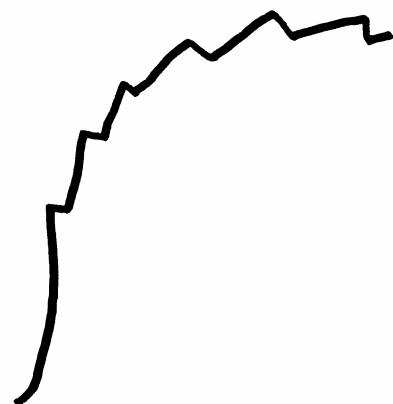
Ad.19:Leafblade:depthofserration



3
shallow



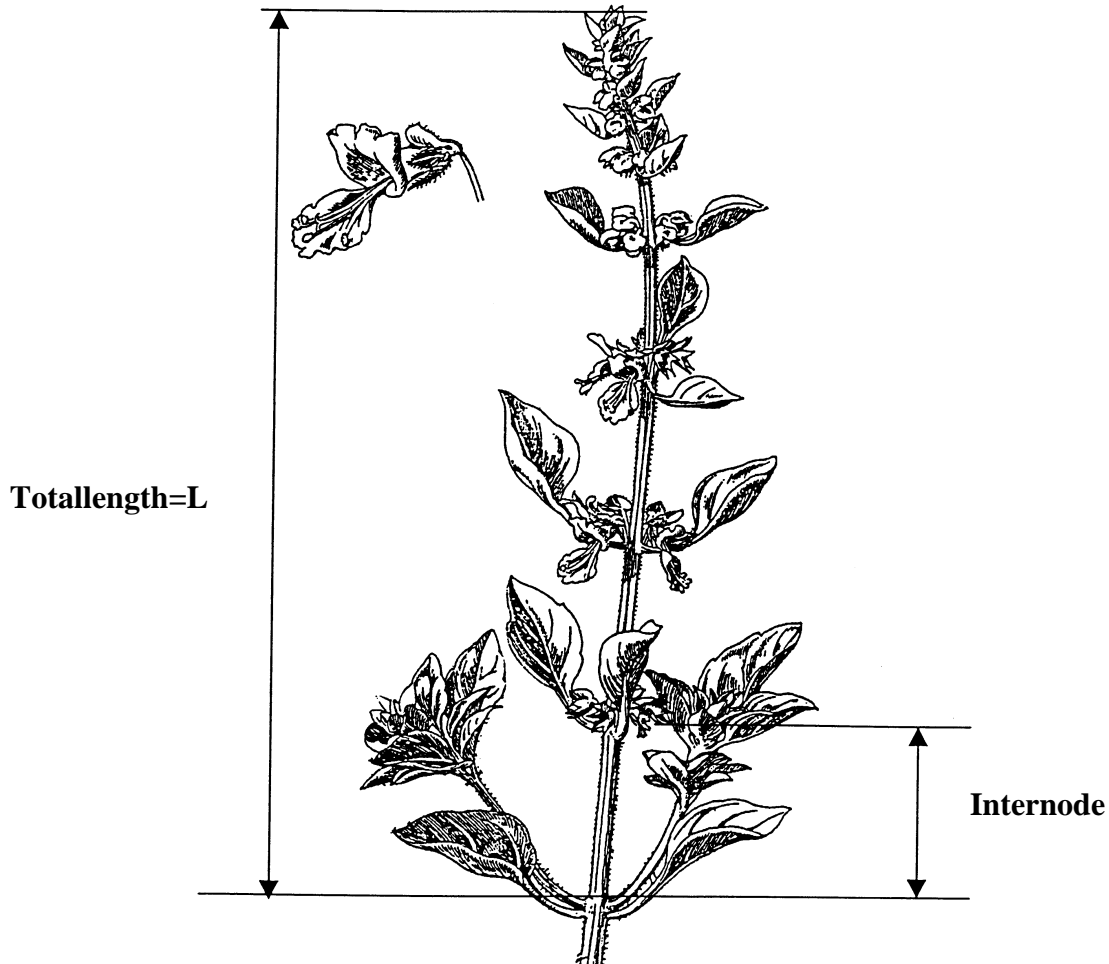
5
medium



7
deep

Ad.22: Flowering stem: average length of internodes (at the end of flowering); and

Ad.23: Flowering stem: total length (at end of flowering)



At the end of flowering, measure the total length of the flowering stem (L), taking into account the part where internodes are expressed. Count the number of internodes (x). The average length of internodes is expressed by the ratio L/x .

9. Literature

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10. TechnicalQuestionnaire

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights		
1. SubjectoftheTechnicalQuestionnaire		
1.1 LatinName	<input type="text" value="Ocimumbasilicum L."/>	
1.2 CommonName	<input type="text" value="Basil"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
TelephoneNo.	<input type="text"/>	
FaxNo.	<input type="text"/>	
E-mailaddress	<input type="text"/>	
Breeder(ifdifferentfromapplicant)	<input type="text"/>	
3. Proposeddenominationandbreeder'sreference		
Proposeddenomination (ifavailable)	<input type="text"/>	
Breeder'sreference	<input type="text"/>	

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
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4. Informationonthebreedingschemeandpropagationofthevariety

4.1 BreedingScheme

Varietyresultingfrom:

4.1.1 Crossing

(a) controlledcross
(pleasesta teparrentvarieties)

(b) partiallyunknowncross
(pleasestateknownparentvariety(ies))

(c) totallyunknowncross

4.1.2 Mutation
(pleasestateparentvariety)

4.1.3 Discovery
(pleasestatewhere,whenandhowdeveloped)

4.1.4 Other
(pleaseprovidedetails)

4.2 MethodofPropagatingtheVariety

4.2.1 Seed-propagatedvarieties:

(a) Self-pollination

(b) Cross-pollination
(i) population
(ii) syntheticvariety

(c) Other
(pleaseprovi dedetails)

4.2.2 Vegetativelypropagatedvarieties:

(a) Cuttings

(b) *In vitro* propagation

(c) Other
(pleaseprovidedetails)

TECHNICALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
<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 Plant:habit (1)</p>		
rounded	Balkonstar,Biborgömb,Bubikopf,Finvert,naincompact	1[]
intermediate	Lemon	2[]
erect	Genovese,Grandvert,Zöldgömb	3[]
<p>5.2 Leafblade:shape (8)</p>		
broadovate	ItalianLargeLeaf	1[]
ovate	Finvert	2[]
elliptic	Keskenylevelü	3[]
<p>5.3 Leafblade:anthocyanin coloration of upper side (11)</p>		
absent	Grandvert,Zöldgömb	1[]
present	Biborgömb,PurpleRuffles	9[]
<p>5.4 Flower:color of corolla (25)</p>		
white	Genovese,Grandvert	1[]
pink	RedRubin	2[]
darkviolet	Osmin,Rubin	3[]
<p>5.5 Time of flowering (10% of plants flowering) (27)</p>		
very early	Lemon	1[]
early	Keskenylevelü	3[]
medium	Genovese,Grandvert	5[]
late	Balkonstar,Rothaut	7[]
very late	PurpleRuffles	9[]

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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

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.

9. 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]