

TG/54/7(proj.1)
ORIGINAL:English
DATE:2003 -05-23

## INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS

**GENEVA** 

# **DRAFT**

UK:Proposetodelete'convar. olearacea'

DE:agree

F:it'sthenameintheEU catalogueandCPVOprotocol

#### **BRUSSELSSPROUT**

Brassicaoleracea L.convar. oleraceavar. gemmifera DC.

#### **GUIDELINES**

#### FORTH ECONDUCTOFTESTS

## FORDISTINCTNESS, UNIFORMITY AND STABILITY

tobeconsideredbythe
TechnicalWorkingPartyforVegetablesatitsthirty -seventhsession,
tobeheldin Roelofarendsveen,Netherlands, fromJune23to27,2003

### AlternativeNames: \*

Latin	English	French	German	Spanish
Brassicaoleracea L.convar.oleracea var.gemmifera DC.	Brusselssprout	ChoudeBruxelles	Rosenkohl	ColdeBruselas

#### ASSOCIATEDDOCUMENTS

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" (herein after referred to as the "General Introduction") and its associated "TGP" documents.

 $<sup>^{*}</sup>$  These names were correct at the time of the introduction of these Test Guidelines but may be revised or up [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. <u>SubjectoftheseTestGuidelines</u>

TheseTestGuidelinesapplytoallvarietiesof Brassicaoleracea L.var. gemmifera DC.

- 2. <u>MaterialRequired</u>
- 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 for malities and phytosanitary requirements are complied with.
- 2.2 Thematerialistobesupplied in the form of seed.
- 2.3 Theminimum quantity of plantmaterial, to be supplied by the applicant, should be:

20g.

[UK:Proposetoadd'oratleast6000se

eds'after20g

CZ:agree

DE:agree;Remark:othercabbagespeciesguidelinesaskfor5000seeds

*F:Needatleast40gor12,000seeds*]

- 2.4 Theseedshouldmeettheminimumrequirementsforgermination, species and analytical purity, health and moisture content, specified by the competent authority. [In cases where these edist obestored, the germination capacity should be as high as possible and should, be stated by the applicant.
- 2.5 Theplantmaterial supplied should be visibly healthy, not lacking in by any important pestor disease. vigor, nor affected
- 2.6 Theplantmaterialshouldnothaveundergoneanytreatmentwhichwouldaffectthe expressionofthecharacteristicsofthevariety,unlessthecompetentauthoritiesallowor requestsuchtreatmen t.Ifithasbeentreated,fulldetailsofthetreatmentmustbegiven.
- 3. MethodofExamination
- 3.1 Duration of Tests

Theminimumduration of tests should normally be two independent [similar] growing cycles].

3.2 TestingPlace

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 observed at that place, the variety may be tested at an additional place.

### 3.3 ConditionsforConductingtheExamination

Thetes tsshouldbecarriedoutunderconditionsensuringsatisfactorygrowthforthe expressionoftherelevantcharacteristicsofthevarietyandfortheconductofthe examination.

## 3.3.1 Typeofobservation –visualormeasurement

Therecommended method of observing the characteristic is indicated by the following key in the second column of the Table of Characteristics:

- MG: singlemeasurementofagroupofplantsorpartsofplants
- MS: measurementofanumberofindividualplantsorpartsofplants
- VG: visualassessmentbyasingleobservationofagroupofplantsorpartsofplants
- VS: visualassessmentbyobservationofindividualplantsorpartsofplants]

#### 3.4 TestDesign

3.4.1 Eachtestshouldbedesignedtoresultinatotalofatleast40plants,wh ichshouldbe dividedbetweentwoormorereplicates].

[DE:Shoulditread60plantsinsteadof40?]

- 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

Unlessotherwiseindicated, allobservations should be made on 20 plants or partstaken from each of 20 plants.

3.6 AdditionalTests

Additional tests, for examining relevant characteristics, may be established.

- 4. AssessmentofDistinctness,UniformityandStability
- 4.1 Distinctness
  - 4.1.1 GeneralRecommendations

ItisofparticularimportanceforusersoftheseTestGuidelinestoconsult theGeneral Introductionpriortomakingdecisionsregardingdistinctness.However,thefollowingpoints are provided for elaboration or emphasis in these TestGuidelines.

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#### 4.1.2 Consistent Differences

Theminimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

[UK:Proposetodeletetheword'sufficiently' F:OK
DE:Thewordsufficientlyshouldberetained]

#### 4.1.3 ClearDifferences

Determiningwhetheradifferencebetweentwovarietiesiscleardependsonmany 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 Itisofparticularimportance forusersoftheseTestGuidelinestoconsulttheGeneral Introductionpriortomakingdecisionsregardinguniformity.However,thefollowingpoints are provided for elaboration or emphasis in these TestGuidelines:
- [4.2.x] **ASW 8** [Theassessmentofu niformity[forcross -pollinatedvarieties]shouldbe according to the recommendations for cross -pollinated varieties in the General Introduction.]
- [4.2.x] [Theassessmentofuniformityforhybridvarietiesdependsonthetypeofhybrid and should be according to the recommendations for hybrid varieties in the General Introduction.]
- [4.2.x] [Fortheassessmentofuniformityofseed recommendationsintheGeneralIntroductionfor[self [hybrid]v arietiesshouldbefollowed,asappropriate.] -propagatedvarieties,the -pollinated]/
- [4.2.x] [Fortheassessmentofuniformity,apopulationstandardof{ x}% and acceptance probability of at least { y}% should be applied. In the case of a applants, [{ b} off-types are]/[1 off-type is] a llowed.]

[UK:Propose:4.2.2 'All plants indicated under Chapter 3 above should be used for the testing of uniformity. Relative uniformity standards should be applied.'
F:OK

CZ:agree

PL: we think the wording used for Chinese ca bbage (TG/105/4 proj. 1) will be appropriate.

DEConsidering the highnumber of hybrids of Brusselss proutwe propose the following words (like in the new guideline of Chinese Cabbage): The assessment of uniformity for single cross hybrid varieties should be made on the basis of the number of of types. A

- 6 -

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, 20 ff -types are allowed.

DE:proposetoadd:

"4.2.3 For the assessme nt of uniformity of other seed -propagated varieties, the recommendations in the General Introduction for cross -pollinated or hybrid varieties should be followed, as appropriate."]

## 4.3 Stability

- 4.3.1 Inpractice, it is not usual toper form tests of stabi lity that produce results ascertain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, form any types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Whereappropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing anew seed or plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.
- 4.3.3 The stability of a hybrid variety may, in addition to an examination of the hybrid variety itself, also be assessed by examination of the uniformity and stability of its parent lines.

[DE:proposetoadd4.3.3(asseenabove]

- 5. GroupingofVarietiesandOr ganizationoftheGrowingTrial
- 5.1 Theselectionofvarietiesofcommonknowledgetobegrowninthetrialwiththe candidatevarietiesandthewayinwhichthesevarietiesaredividedintogroupstofacilitate theassessmentofdistinctnessisaidedbyt heuseofgroupingcharacteristics.
- 5.2 Groupingcharacteristicsarethoseinwhichthedocumentedstatesofexpression, even whereproduced at different locations, can be used, either individually or incombination 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 trials oth at similar varieties are grouped to gether.
- 5.3 Thefollowinghavebeenagreedasuseful groupingcharacteristics:
  - (a) Plant:height(characteristic1)
  - (b) Leafblade:color(characteristic4)
  - (c) Leafblade:intensityofcolor(characteristic5)
  - (d) Leafblade:cupping(characteristic7)
  - (e) Startofharvestmaturity(characteristic18)

[UK:Proposetodelete( b)and(c)from grouping as these characteristics; although very good discriminators, do not express consistently when varieties are grown in different environmental conditions.

DE:agreetodeleteasgroupingcharacteristics

CZ:keep4,agreetodelete5

F: keep4, agree to delete5 ; It is true that these characteristics depend on the areofculture, but need char. 4 to structure therefore need of letters are the second of the second o

- 5.4 Guidancefortheuseofgroupingcharacteristics,intheprocessofexamining distinctness,is providedthroughtheGeneralIntroduction.
- 6. IntroductiontotheTableofCharacteristics
- 6.1 Categories of Characteristics
  - 6.1.1 StandardTestGuidelinesCharacteristics

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 AsteriskedCharacteristics

Asteriskedcharacteristics(denotedby\*)arethoseincludedintheTestGuidelines whichareimporta ntfortheinternationalharmonizationofvarietydescriptionsandshould alwaysbeexaminedforDUSandincludedinthevarietydescriptionbyallmembersofthe Union,exceptwhenthestateofexpressionofaprecedingcharacteristicorregional environmentalconditionsrenderthisinappropriate.

## 6.2 StatesofExpressionandCorrespondingNotes

States of expressionare given for each characteristic to define the characteristic and to harmonized escriptions. Each state of expression is allocated a corre sponding numerical note for ease of recording of data and for the production and exchange of the description.

## 6.3 TypesofExpression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

### 6.4 ExampleVarieties

Whereappropriate, example varieties are provided to clarify the states of expression of each characteristic.

- 6.5 Legend
- (\*) Asteriskedcharacteristic –seeSection6.1.2
- (QL) Qualitative character istic see Section 6.3
- (QN) Quantitative characteristic -see Section 6.3
- (PQ) Pseudo-qualitativecharacteristic -seeSection6.3
- (+) SeeExplanationsontheTableofCharacteristicsinChapter8

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#### <u>TableofCharacteristics/Tableaudescaractères/Merkmal</u> <u>stabelle/Tabladecaracteres</u> 7.

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedadesejemplo	Note/ Nota
1. (*)	VG/MG	Plant:height					
		short				(JadeCross)	3
		medium				Cascade	5
		tall				Bridge	7
2.	VG	Plant:tendencyto formahead					
		absentorveryweak				Masterline	1
		weak				Cyrus	3
		medium				Bridge	5
		strong				Cor	7
		verystrong				Oliver	9
CZ:kee DE:ag F:keep	ep reetodelete 9?	eristicuseful?Canwed	delete? onottendtoforma	uhead			
CZ:kee DE:ag F:keep PL:thi	ep reetodelete	eristicuseful?Canwed		uhead			
CZ:kee DE:ag F:keep PL:thi	ep reetodelete ? nkitisuseful	eristicuseful?Canwed vasnewvarieti esdd		uhead		Angus	3
CZ:kee DE:ag F:keep PL:thi	ep reetodelete ? nkitisuseful	eristicuseful?Canwed easnewvarieti esdd Leafblade:size		uhead		Angus PeerGynt	3 5
CZ:kee DE:ag F:keep PL:thi	ep reetodelete ? nkitisuseful	eristicuseful?Canwe easnewvarieti esdo Leafblade:size small		nhead		-	_
CZ:kee DE:ag F:keep PL:thi	ep reetodelete ? nkitisuseful	eristicuseful?Canwed easnewvarieti esdo Leafblade:size small medium		ıhead		PeerGynt	5
CZ:kee DE:ag F:keep PL:thii 3. (*)	ep reetodelete o? nkitisuseful <b>VG</b>	eristicuseful?Canwed easnewvarieti esde Leafblade:size small medium large		ıhead		PeerGynt	5
CZ:kee DE:ag F:keep PL:thii 3. (*)	ep reetodelete o? nkitisuseful <b>VG</b>	eristicuseful?Canweleasnewvarieti esde Leafblade:size small medium large Leafblade:color		nhead		PeerGynt Braveheart	5 7
CZ:kee DE:ag F:keep PL:thii 3. (*)	ep reetodelete o? nkitisuseful <b>VG</b>	casnewvarieti esde  Leafblade:size  small medium large  Leafblade:color green		uhead		PeerGynt Braveheart  Masterline	5 7
CZ:kee DE:ag F:keep PL:thii 3. (*)	ep reetodelete o? nkitisuseful <b>VG</b>	eristicuseful?Canweleasnewvarieti esde  Leafblade:size  small medium large  Leafblade:color green blue-green		thead		PeerGynt Braveheart  Masterline Angus	5 7 1 2
CZ:kee DE:ag F:keep PL:thi  3. (*)	ep reetodelete o? nkitisuseful <b>VG</b>	eristicuseful?Canweleasnewvarieti esde  Leafblade:size  small medium large  Leafblade:color green blue-green purple  Leafblade:		nhead		PeerGynt Braveheart  Masterline Angus	5 7 1 2
CZ:kee DE:ag F:keep PL:thi  3. (*)	ep reetodelete o? nkitisuseful <b>VG</b>	casnewvarieti esde  Leafblade:size  small medium large  Leafblade:color green blue-green purple  Leafblade: intensityofcolor		ihead		PeerGynt Braveheart  Masterline Angus	5 7 1 2 3

# TG/54/7(proj.1) BrusselsSprout ,2003- 05-23 - 9 -

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedadesejemplo	Note/ Nota
6.	VG	Leafblade: waxiness					
		weak				EveshamSpecial	3
		medium				PeerGynt	5
		strong				Cavalier	7
7. (*)	VG	Leafblade: cupping					
		stronglyconvex					1
		convex					3
		plane				Braveheart	5
		concave				Estate	7
		stronglyconcave				Explorer	9
8.	VG	Leafblade: blistering					
		weak				Cavalier	3
		medium				Masterline	5
		strong				Breeze	7
9.	VG	Leafblade: reflexingo f margin					
		absent				Lunet, Masterline	1
		present				Breeze,Odessa	9
L:drav	wingwould	dbeuseful					
10. (*)	VG	Petiole:attitude					
		semi-erect				Montgomery	3
		horizontal				Angus	5
		drooping				Odessa	7

	1	Λ	
-	1	u	-

		English	français	deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedadesejemplo	Note/ Nota
11.	VG	Petiole:length comparedwith blade					
		shorter				Braveheart	3
		equal				Masterline	5
		longer				Odessa	7
UK:Pro	posechar	ngeto:'Petiole:le	ngthcomparedtoleafb	lade'.			
Shouldv	vesepara	teinto'Leaf:leng	gth'and'Petiole:length	h'?			
CZ:tose	parateint	oLeaf:lengthana	lPetiole:length				
DE:Agr							
F:Propo	osetochar	ngeto:Ratio:leng	thofleafblade:lengtho	fthepetiolewithstate.	ssmall(3)medium(5)a	ndhigh(7)	
	ssmall(<1 erthanblad		elongerthantheblade;	Ifratioismedium,thep	petioleisaslongastheb	lade:Ifratioishigh,petiole	
12. (*)	VG	Petiole: anthocyanin coloration					
		absentorveryv	veak			Revenge	1
		weak				Breeze	3
		medium				Odessa	5
		strong				PrinceMarvel	7
		verystrong				Rasalon	9
CZ:Peti	oleintens	ityofanthocyanir	tensityofanthocyanin' n,butscaleistoolarge	·		nanyguidelinesonlyusedwhen	
theforeg	goingchai	•	ocyanincoloration:ab		cyanincolorationisini	nanygutaetinesontyuseawnen	
13.	VG	Sprout:size					
		small				Braveheart	3
		medium				PeerGynt,Odessa	5

Oliver, Masterline

7

large

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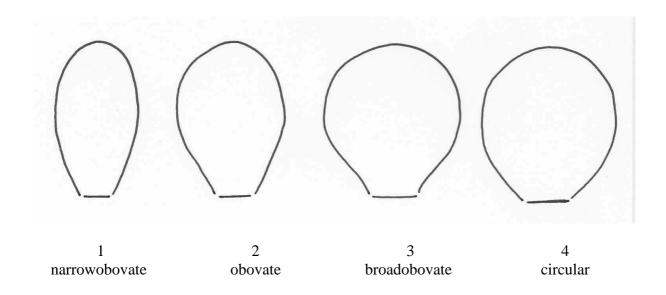
		English	français	deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedadesejemplo	Note Nota
14.	VG	Sprout:shapeof longitudinal section					
(+)		narrowobovate				Explorer	1
		obovate					2
		broadobovate				Odessa	3
		circular				Braveheart	4
<i>CZ,DE,</i> F:adddr	F:agree awing	out:shapeinlongitudi stateobovate					
15.	VG	Sprout:color					
		lightgreen					1
		mediumgreen				Estate	2
		darkgreen				Placido	3
		blue-green				Cascade	4
		purple				Rubine	5
and5)	tinto2cha toCZprop	_	lorgreen/bluegree	en/purpleandIntensit	yofsproutcolor:light/1	nedium/dark(Seechar.4	
16.	VG	Sprout:openingof outerleaves	·				
		absentorveryweak					1
		weak				Breeze, Masterline	3
		medium				Falstaff,Setterline	5
		strong				Braveheart,Prelent	7
		verystrong					9
CZ: kee	pwithdefi		atmaturity).Acco	rdingtoourexpert,itse	=	ulitativecharacteristic.	

# TG/54/7(proj.1) BrusselsSprout ,2003- 05-23 - 12 -

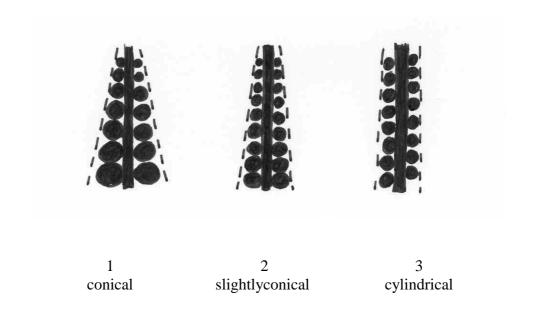
		English	français	deutsch	español	ExampleVarieties/ Exemples/ Beispielssorten/ Variedadesejemplo	Note/ Nota
17.	VG	Sprouts:spac	ing				
		narrow				Estate,Prelent	3
		medium				Cavalier,Cor	5
		wide				Silverline	7
CZ,DE,	F:agree	outs:spacingonco					
PL:pro	posetoad	dexplanationord	rawing				
18.	VG	Startofharves maturity	st				
		veryearly				Lancer,Oliver	1
		early				Masterline,PeerGynt	3
		medium				Lunet,Odessa	5
		late				Bridge,Braveheart	7
		verylate				Ulysses	9
19.	VG	Aspectofspro column	ut				
(+)		conical				Falstaff	1
		slightlyconica	1			Setterline,Regent	2
		cylindrical				Angus,Braveheart	3
DE:fron F:Itisus oldvarie	nourpoint efultodist eties.Prop	ofviewthecharac		l.Newvarietiesarem umn)whichareharve	ostlycy lindri	ical	
PL:Prop	o osaltoa	ddanewcharacte	ristic:				_
		Sprout:firmno harvestmatur					
		loose					3
		medium					5
		firm					7

## 8. ExplanationsontheTableofCharacteristics

## Ad.14:Sprout:shapeinlongitudinalsection



## Ad.19:Aspectofsproutcolumn



## 9. <u>Literature</u>

Tsunoda, S. Hinata, K. and Gomez - Campo, C. 1990: "Brassica Crops and Wild Allies Biology and Breeding." Japan Scienti fic Societies Press, Tokyo

# 10. <u>TechnicalQuestionnaire</u>

TEC	CHNIC	CALQUESTIONNAIRE	Page{x}of{y}	ReferenceNumber:
				Applicationdate: (nottobefilledinbytheapplicant)
		TEC: tobecompletedinconnecti [Inthecaseofhybridvarieti ights,andwheretheparentli	eswhicharethesubjectof	anapplicationforplant
theh	ybridy		uestionnaireshouldbeco	mpletedforeachoftheparent
1.	Subj	ectoftheTechnicalQuestic	nnaire	
	1.1	LatinName	rassicaoleracea L.var.	gemmifera DC.
	1.2	CommonName	russelsSprout	
2.	App	licant		
	Nam	ne		
	Add	ress		
	Tele	phoneNo.		
	Faxl	No.		
	E-m	ailaddress		
	Bree	eder(ifdifferentfromapplic	ant)	
3.	Prop	ooseddenominationandbre	eder'sreference	
	-	ooseddenomination ailable)		
	Bree	eder'sreference		

TEC	CHNI	CALQU	ESTIONNAIRE	Page{x}of{y}	ReferenceNumber:	
4.	Info 4.1	Breedi	ngscheme ASW  tyresultingfrom:  Crossing  (a) controlledcro	oss parentvarieties)		
	4.2	4.1.2 4.1.3 4.1.4 Method	(c) totallyunkno  Mutation (pleasestateparenty  Discovery	wncross  variety)  whenandhowdevelope  nils)]		
5.				eindicated(thenumberin idelines;pleasemarkth	nbracketsreferstothe enotewhichbestcorresponds).	
	C	haracteris	tics		ExampleVarieties	Note
<b>5.</b> 1 (1)		lant:heig	ht			
	sl	nort			(JadeCross)	3[]
	n	nedium			Cascade	5[]
	ta	ıll			Bridge	7[]

TECHNICALQUESTIONNAIRE	$Page\{x\}of\{y\}$	ReferenceNumber:

,	·		
5.2 (4)	Leafblade:color		
	green	Masterline	1[]
	blue-green	Angus	2[]
	purple	Rubine	3[]
5.3 (5)	Leafblade: intensityofcolor		
	light		3[]
	medium		5[]
	dark		7[]
5.4 (7)	Leafblade:cupping		
	stronglyconvex		1[]
	convex		3[]
	plane	Braveheart	5[]
	concave	Estate	7[]
	stronglyconcave	Explorer	9[]
5.5 (12)	Petiole:anthocyanincolor ation		
	absentorveryweak	Revenge	1[]
	weak	Breeze	3[]
	medium	Odessa	5[]
	strong	PrinceMarvel	7[]
	verystrong	Rasalon	9[]
DE:Shoi	ld5.2and5.3stillbeincludedwhendeletedasgroupingcharacteristics?		

TECHNICALQUESTIONNAIRE			Page{x}	of{y}	ReferenceNumber:			
5.6 (18)	Startofharvestn	na turity		-				
	veryearly				Lancer,	Oliver	1[]	
	early				Masterl	ine,PeerGynt	3[]	
	medium				Lunet,Odessa			
	late		Bridge,Braveheart		7[]			
	verylate				Ulysses		9[]	
6. Similarvarietiesanddifferencesfromthesevarieties  Pleaseusethetable, and spceprovided 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 it sexamination of distinctness in a more efficient way.  Denomination (s) of Characteristic (s) in Describe the expression variety (ies) similar to which your candidate of the characteristic (s) of the characteristic (s) your candidate variety variety differs from the similar for your candidate variety variety (ies) variety								
Example	e			(exampleto)	beinserted)	(exampletobei	nserted)	
Comm	ents:							

ILC	IIIVICE	ALQUE	SHONN	AIKE	Page{x	301{ y }	ReferenceNumber:	
7.	Addit	Additionalinformationwhichmayhelpintheexamina tionofthevariety						
7.1	Inadditiontotheinformationprovidedinsections5and6,arethereanyadditional characteristicswhichmayhelptodistinguishthevariety?							
	Yes	[]		No [	I			
	(Ifyes	,pleasep	orovidede	etails)				
<ul> <li>7.2 Specialconditionsfort heexaminationofthevariety</li> <li>7.2.1 Arethereanyspecialconditionsforgrowingthevarietyorconductingthe examination?</li> </ul>							/	
							thevarietyorconductingthe	
		Yes	[]		No	[]		
	7.2.2	Ifye	s,pleaseg	ivedetail	s:			
7.3	Other	nerinformation						
Tech		16 A uestion	represent naire.	ativecol	orphotog	raphof t	hevarietyshouldaccompanythe	
8.	Autho	orizatio	nforreleas	se				
(a) Doesthevarietyrequirepriorauthorizationforreleaseunderlegislationconcern theprotectionoftheenvironment,humanandanimalhealth?								
		Yes	[]		No	[]		
(b) Hassuchauthorizationbeenobtained?								
		Yes	[]		No	[]		
	If the answer to (b) is yes, please attach a copy of the authorization.							

TECHNICALQUESTIONNAIRE Page{x}of{y} ReferenceNumber:								
9. Informationonplantmaterialtobeexamined.  9.1 Theexpressionofacharacteristicorseveralchar acteristicsofavarietymaybeaffected byfactors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scionstaken from different growth phases of a tree, etc.								
9.2 Thep lantmaterialshouldnothaveundergoneanytreatmentwhichwouldaffectthe expressionofthecharacteristicsofthevariety,unlessthecompetentauthoritiesalloworrequest suchtreatment. If the plantmaterial has undergone such treatment, full detai lsofthetreatment 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. vir	us,bacteria,phytoplasm	ia)	Yes[]	No[]		
	(b)	Chemicaltreatment(e.g.	growthretardantorpest	icide)	Yes[]	No[]		
	(c)	Tissueculture			Yes[]	No[]		
	(d)	Otherfactors			Yes[]	No[]		
	Pleaseprovidedetailsofwhereyouhaveindicated"yes".							
10. Iherebydeclar ethat,tothebestofmyknowledge,theinformationprovidedinthisform iscorrect:								
Applicant'sname								
	Signa	nture		Date				

[Endofdocument]