

TG/199/1(proj.1)
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# INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS GENEVA

**DRAFT** 

#### **CHINESECHIVE**

(Alliumtuberosum RottlerexSpreng)

#### **GUIDELINES**

#### **FORTHECONDUCTOFTESTS**

### FORDISTINCTNESS, UNIFORMITY AND STABILITY

#### AlternativeNames: \*

Latin	English	French	German	Spanish
Alliumtuberosum Rottler exSpreng	ChineseChive	Civettechinoise	Alliumtuberosum	Civechino

#### **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> 

<sup>\*</sup> 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 UPO V Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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### 1. <u>SubjectoftheseGuidelines</u>

These Test Guidelines apply to all varieties of Allium tuber osum Rottlerex Spreng.

#### 2. MaterialRequired

- 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 Thematerialistobe supplied in the form of seed for seed or propagated varieties and in the form of seed of lings for vegetatively propagated varieties.
- 2.3 Theminimum quantity of plantmaterial, to be supplied by the applicant, should be:

forseed -propagated varieties: 20gofseed or 3,000 seeds;

forvegetativelypropagated varieties: 100 seedlings.

- 2.4 In the case of seed -propagated varieties, the seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specifiedbythecompetentauthority. Incases where these edistobestored, the germinat ion capacity should be a shigh a spossible and should be stated by the applicant.
- 2.5 The plant material supplied should be visibly healthy, not lacking in vigor, nor affectedbyanyimportantpestordisease.
- 2.6 The plant material should not have unde rgone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or requestsuchtreatment. If it has been treated, full details of the treatment must be given.

#### 3. MethodofExamination

#### 3.1 Duration of Tests

The minimum duration of tests should normally betwoin dependent 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 DU S, cannot be seen at that place, the varietymaybetestedatanadditional place.

#### 3.3 ConditionsforConductingtheExamination

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

#### 3.4 TestDesign

- 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 Eachtest should be designed to result in a total of at least 60 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 o bservations determined by measuring or counting shouldbemadeon20 plantsorpartstakenfromeachof20 plants.

3.6 AdditionalTests

Additionaltests, for examining relevant characteristics, may be established.

- 4. <u>AssessmentofDistinctness,Uniformity andStability</u>
- 4.1 Distinctness
  - 4.1.1 GeneralRecommendations

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 ConsistentDifferences

 $The \,minimum\,duration\,of\,tests\,recommended\,in\,section\,3.1\,reflects, in\,general, the\,need to ensure that any difference sina characteristic are sufficiently consistent.$ 

#### 4.1.3 ClearDifferences

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 qualitativ e, 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 ItisofparticularimportanceforusersoftheseTestGuidelinestoconsulttheGeneral Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these TestGuidelines:
- 4.2.2 Theassessmentofuniformityforvegetativelypropagatedvarieties should be made on the basis of the number of off -types. 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.

- 4.2.3 For the assessment of uniformity of seed -propagated varieties, the recommendations in the General Introduction for the cross -pollinated or hybrid varieties should be followed, as appropriate.
- 4.3 Stability
- 4.3.1 In practice, it is not usual toper form tests of stability that produce results ascertain 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 eshown 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.
- 5. GroupingofVarietie sandOrganizationoftheGrowingTrial
- 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 theassessment of distinctnessisai ded by the use of grouping characteristics.
- 5.2 Groupingcharacteristics are those in which the documented states of expression, even where produced 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 together.
- 5.3 Thefollowinghavebeenagreedas usefulgroupingcharacteristics:
  - (a) Leaf:attitude(characteristic4);
  - (b) Leafblade:width(characteristic6);
  - (c) Pseudo-stem:shapeincrosssection(characteristic12).
- 5.4 Guidance for the use of grouping characteristics, in the process o f examining distinctness, is provided through the General Introduction.

#### 6. IntroductiontotheTableofCharacteristics

#### 6.1 Categories of Characteristics

#### 6.1.1 StandardTestGuidelinesCharacteristics

 $Standard Test Guidelines characteristics are those whi \\ chare approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.$ 

#### 6.1.2 AsteriskedCharacteristics

Asterisked characteristics (denoted by \*) are those included in the Test Gu idelines 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 character istic or regional environmental conditions render this inappropriate.

#### 6.2 StatesofExpressionandCorrespondingNotes

Statesofexpressionaregivenforeachcharacteristictodefinethecharacteristicandto harmonizedescriptions. 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 TypesofExpression

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

#### 6.4 ExampleVarieties

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

- 6.5 Legend
- (\*) Asteriskedcharacteristic –seeSection6.1.2
- (a)-(b) SeeExplanationsontheTableofCharacteristicsinChapter8,Section8.1
- (+) SeeExplanationsontheTableofCharacteristicsinChapter8,Section8.2

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#### 7. <u>TableofCharacteristics/Tableaudescaractères/Merkmalstabelle/Tabladecaracteres</u>

		English	français	Deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
1. (*) (+)	(a)	Plant:height	Plante:hauteur	Pflanze:Höhe	Planta:altura		
		short	basse	niedrig	baja		3
		medium	moyenne	mittel	media	Gurinberut o	5
		tall	haute	hoch	alta	Wandag urinberuto	7
2.	(a)	Seed-propagated varietiesonly:Plant: numberoftiller s	Variétésà reproductionsexuée seulement:Plante: nombredetalles	Nur samenvermehrte Sorten: Pflanze: Anzahl Seitentriebe	Sólovariedadesde reproducción sexuada:Planta: númerodehijuelos		
		few	petit	gering	bajo	Tairyou	3
		medium	moyen	mittel	medio	Wandag urinberuto	5
		many	grand	groß	alto	Gurinberuto	7
3.	(a)	Plant:number of flowering stems	Plante:nombrede tigesflorales	Pflanze:Anzahl Blütentriebe	Planta:númerode tallosflorales		
		few	petit	gering	bajo		3
		medium	moyen	mittel	medio	Gurinberuto	5
		many	grand	groß	alto	Tendaporu	7
4. (*) (+)	(a)	Leaf:attitude	Feuille:port	Blatt:Haltung	Hoja:porte		
		erect	dressé	aufrecht	erecto	Tairyou	1
		erecttosemi -erect	dresséàdemi -dressé	aufrechtbis halbaufrecht	erectoasemierecto	Daiyamondoberuto	2
		semi-erect	demi-dressé	halbaufrecht	semierecto	Gurinberuto	3
		semi-erectto horizontal	demi-dressé àhorizontal	halbaufrechtbis waagerecht	semierectoa horizontal	Kuraunberuto	4
		horizontal	horizontal	waagerecht	horizontal	Tendaporu	5

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	English	français	Deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
5. (*) (+)	Leafblade:length	Limbe:longueur	Blattspreite:Länge	Limbo:longitud		
	short	court	kurz	corto		3
	medium	moyen	mittel	medio	Gurinberuto	5
	long	long	lang	largo	Kuraunberuto	7
6. (*) (+)	Leafblade:width	Limbe:largeur	Blattspreite:Breite	Limbo:anchura		
	narrow	étroit	schmal	estrecho	Tendaporu	3
	medium	moyen	mittel	medio	Gurinberuto	5
	broad	large	breit	ancho	Tairyou	7
7.	Leafblade:intensity ofgreencolor	Limbe:intensitéde lacouleurverte	Blattspreite: Intensitätder Grünfärbung	Limbo:intensidad delcolorverde		
	light	claire	hell	claro	Tairyou	3
	medium	moyenne	mittel	medio	Gurinberuto	5
	dark	foncée	dunkel	oscuro	Kuraunberuto	7
8.	Leafblade: glossiness	Limbe:brillance	Blattspreite:Glanz	Limbo:brillo		
	weak	faible	gering	débil	Tendaporu	3
	medium	moyenne	mittel	medio	Gurinberuto	5
	strong	forte	stark	fuerte	Tairyou	7
9.	Leafblade: thickness	Limbe:épaisseur	Blattspreite:Dicke	Limbo:grosor		
	thin	fine	dünn	delgado		3
	medium	moyenne	mittel	medio	Gurinberuto	5
	thick	épaisse	dick	grueso	Tairyou	7

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	English	français	Deutsch	español	ExampleVarieties Exemples Beispielssorten	Note/ Nota
10.	Leafblade: droopingoftip	Limbe:inclinaison del'extrémité	Blattspreite: Überhängender Spitze	Limbo:curvatura delápice	Variedadesejemplo	
	weak	faible	gering	débil	Wandag urinberuto	3
	medium	moyenne	mittel	media	Gurinberuto	5
	strong	forte	stark	fuerte	Kuraunberuto	7
11.	Leafblade:bloom	Limbe:pruine	Blattspreite: Bereifung	Limbo:pruína		
	few	faible	gering	escasa	Tairyou	3
	medium	moyenne	mittel	media	Gurinberuto	5
	many	forte	stark	abundante	Oobananyounira	7
12. (*) (+)	Pseudo-stem:shape incrosssection	Faussetige:forme delasection transversale	Pseudotrieb:Form imQuerschnitt	Pseudotallo:forma ensección transversal		
	round	arrondie	rund	redonda	Gurinberuto	1
	oval	ovale	eiförmig	oval	Wandag urinberuto	2
13. (*) (+)	Pseudo-stem:length	Faussetige: longueur	Pseudotrieb:Lä nge	Pseudotallo: longitud		
	short	courte	kurz	corto		3
	medium	moyenne	mittel	medio	Gurinberuto	5
	long	longue	lang	largo	Kuraunberuto	7
14. (*) (+)	Pseudo-stem: maximumwidth	Faussetige:largeur maximale	Pseudotrieb: maximaleBreite	Pseudotallo: anchuramáxima		
	narrow	étroite	schmal	estrecho		3
	medium	moyenne	mittel	medio	Gurinberuto	5
	broad	large	breit	ancho	Kuraunberuto	7
15. (*)	Pseudo-stem: predominantcolor	Faussetige:couleur prédominante	Pseudotrieb: überwiegendeFarbe	Pseudotallo:color predominante		
	white	blanc	weiß	blanco	Kuraunberuto	1
	greenish	verdâtre	grünlich	verdoso	Gurinberuto	2

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		English	français	Deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
16.		Pseudo-stem: numberofleaves	Faussetige:nombre defeuilles	Pseudotrieb:Anzahl Blätter	Pseudotallo:número dehojas		
		few	petit	gering	bajo	Tendaporu	3
		medium	moyen	mittel	medio	Gurinberuto	5
		many	grand	groß	alto		7
17.	(b)	Floweringstem : length	Tigeflorale: longueur	Blütentrieb:Länge	Tallofloral: longitud		
		short	courte	kurz	corto		3
		medium	moyenne	mittel	medio	Tendaporu	5
		long	longue	lang	largo	Wandag urinberuto	7
18.	(b)	Floweringstem : diameter	Tigeflorale: diamètre	Blütentrieb: Durchmesser	Tallofloral: diámetro		
		small	petit	klein	pequeño		3
		medium	moyen	mittel	medio	Tendaporu	5
		large	grand	groß	grande	Wandag urinberuto	7
19. (*)		Timeofbolting	Époquede montaison	Zeitpunktdes Schossens	Épocadebrotación		
		early	précoce	früh	temprana	Tendaporu	3
		medium	moyenne	mittel	media	Gurinberuto	5
		late	tardive	spät	tardía		7

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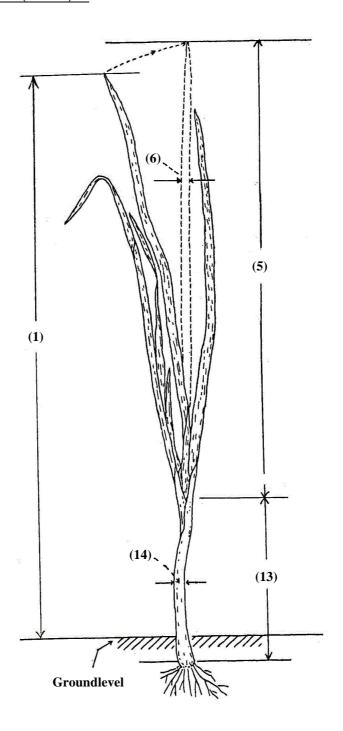
- 8. <u>ExplanationsontheTableofCharacteristics</u>
- 8.1 Explanationscoveringseveralcharacteristics

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

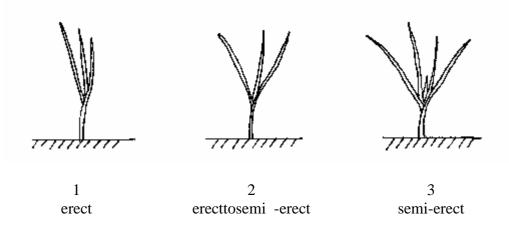
- (a) <u>Plantandlea f</u>: Observations on the plant and leaf should be made at harvest maturity.
- (b) <u>Flowering stem</u>: Observations on the flowering stem should be made at time offull flowering.

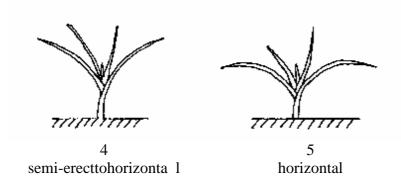
# 8.2 Explanationsforindividualcharacteristics

 $\underline{Ads.1,5,6,13} \\ \underline{Ads.1,5,6,13} \\ \underline{and14:Plant} \\ \underline{-stem:} \\ \underline{lengthandmaximumwidth(13+14)} \\ \underline{-stem:} \\ \underline$ 



# Ad.4:Plant:growthhabit





# Ad.12:Pseudo -stem:shapeincrosssection



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

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# 10. <u>TechnicalQuestionnaire</u>

TEC	HNICALQUESTIONNAIR	E	Page{x}of{y}	ReferenceNumber:					
				Applicationdate: (nottobefilledinbytheapplicant)					
	TECHNICALQUESTIONNAIRE to be completed in connection with an application for plant breeders' rights								
1.	SubjectoftheTechnicalQuestionnaire								
	1.1 LatinName	All	iumtuberosum Rottlere	exSpreng					
	1.2 CommonName	Ch	ineseChive						
2.	Applicant								
	Name								
	Address								
	TelephoneNo.								
	FaxNo.								
	E-mailaddress								
	Breeder(ifdifferentfromapp	lica	nt)						
3.	Proposeddenominationand	bree	der'sreference						
	Proposeddeno mination (ifavailable)								
	Breeder'sreference								

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

4.	Info	rmationonthebreedingschemeandpropagationofthevariety							
	4.1	Breed	ingScl	gScheme					
		Variet	tyresu	ltingfrom:					
		4.1.1	Cros	sing					
			(a)	controlledcross (pleasestateparentvarieties)	[]				
			(b)	partiallyunknowncross (pleasestateknownparentvariety(ies))					
			(c)	totallyunknowncross	[]				
		4.1.2	Muta (plea	ation asestateparentvariety)					
		4.1.3		overy asestatewhere, when and how developed)					
		4.1.4	Othe (plea	er aseprovidedetails)					
	4.2	Metho	odofPr	ropagatingtheVariety					
		4.2.1	Seed	l-propagatedvarieties					
			(a)	Self-pollination	[]				
			(b)	Cross-pollination (i) population (ii) synthetic variety	[] []				
			(c)	Hybrid (seebelow)					
			(d)	Other (pleaseprovidedetails)					
		4.2.2	Vege	etativelypropagatedvarieties					
			(a) (b) (c)	cuttings invitro propagation other(statemethod)	[] [] []				

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

In the case of hybrid varieties the production scheme for the hybrid should be provided on a separate she et. This should provide details of all the lines required for propagating the hybrid, e.g.

```
SingleHybrid(SH)
(...femaleparent...)x(...maleparent...)

Three-WayHybrid(3WH)
(...femaleline...)x(...maleline...)
=>singlehybridusedasfemaleparent x(...maleparent...)
```

and should identify in particular:

- (a) anymalesterilelines
- (b) maintenancesystemofmalesterilelines.
- 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).

	Characteristics	ExampleVarieties	Note
5.1 (4)	Leaf: attitude		
	erect	Tairyou	1[]
	erecttosemi -erect	Daiyamondoberuto	2[]
	semi-erect	Grinberuto	3[]
	semi-erecttohoriz ontal	Kuraunberuto	4[]
	horizontal	Tendaporu	5[]
<b>5.2</b> (6)	Leafblade: width		
	narrow	Tendaporu	3[]
	medium	Grinberuto	5[]
	broad	Tairyou	7[]

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TECHNICALQUESTIONNAIRE Page{x}of{y} ReferenceNumber:

	Characteristics		ExampleVariet	ties	Note
5.3 (12)	Pseudo-stem: shape	incrosssection			
	round		Grinberuto		1[]
	oval		Wandagrinbert	uto	2[]
5.4 (15)	Pseudo-stem: predo	minantcolor			
	white		Kuraunberuto		1[]
	greenish		Grinberuto		2[]
6.	Similarvarietiesa	nddifferencesfromthese	varieties		
vari	nomination(s)of ety(ies)similar to rcandidatevariety	Characteristic(s)in whichyourcandidate varietydiffersfrom thesimilarvariety(ies)	Describetheexpression ofthecharacteristic(s) forthe <b>similar</b> variety(ies)	Describetheexpre ofthecharacterist for <b>your</b> candi- variety	ic(s)
(Exai	nple)	Leaf:attitude	erect	erecttosemi -e	rect

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TECI	HNICAL	QUEST	CIONNAIRE	Page{x}of{	<b>y</b> }	ReferenceNumber:	
7.	. Additionalinformationwhichmayhelpintheexaminationofthevariety						
7.1	In addition to the information provided in sections 5 and 6, are there any additional characteristicswhichmayhelptodistinguishthevariety?						
		Yes		No			
	(Ifyes,pl	easepro	videdetails)				
7.2	Specialconditionsfortheexaminationofthevariety						
	7.2.1 Are there any special conditions for growing the variety or conducting the examination?						
		Yes		No			
	7.2.2	Ifyes,p	oleasegivedetail	s:			
7.3	Otherinformation						
8.	Authorizationforrelease						
	(a) Doesthevarietyrequirepriorauthorizationforreleaseunderlegislationconcerning theprotectionoftheenvironment,hu manandanimalhealth?						
		Yes		No	[]		
	(b) Hassuchauthorizationbeenobtained?						
		Yes		No			
	If the answer to (b) is yes, please attach a copy of the authorization.						
9. Iherebydeclarethat,tothebestofmyknowledge,theinf ormationprovidedinthisform iscorrect:							
	Applica	nt'snam	e				
	Signatur	re				Date	