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

**UNION INTERNATIONALE  
POUR LA PROTECTION  
DES OBTENTIONS  
VÉGÉTALES**

**INTERNATIONALER  
VERBAND ZUM SCHUTZ  
VON PFLANZEN-  
ZÜCHTUNGEN**

**UNIÓN INTERNACIONAL  
PARA LA PROTECCIÓN  
DE LAS OBTENCIONES  
VEGETALES**

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

**LEAF CHICORY**  
*(Cichorium intybus L.*  
*partim)*

**GENEVA**  
**1996**

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These Guidelines should be read in conjunction with document TG/1/2, which contains explanatory notes on the general principles on which the Guidelines have been established.

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## I. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Cichorium intybus* L. partim, excluding witlof and industrial chicory.

## II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the seed required for testing the variety is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must make sure that all customs formalities are complied with. The minimum quantity of seed to be supplied by the applicant in one or several samples should be:

25 g.

The seed should at least meet the minimum requirements for germination capacity, moisture content and purity for marketing seed in the country in which the application is made. The germination capacity should be as high as possible.

2. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

## III. Conduct of Tests

1. The minimum duration of tests should normally be two similar growing periods.
2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.
3. The tests should be carried out under conditions ensuring normal growth. The size of the plots should be such that plants or parts of plants may be removed for measurement and counting without prejudice to the observations which must be made up to the end of the growing period. Each test should include a total of 100 plants which should be divided between two or more replicates. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.
4. Additional tests for special purposes may be established.

## IV. Methods and Observations

1. All observations determined by measurement or counting should be made on 40 plants or parts of 40 plants.

2. For the assessment of uniformity of hybrid varieties a population standard of 3% with an acceptance probability of at least 95% should be applied to off-types excluding clearly recognisable inbred plants. In the case of a sample size of 100 plants, the maximum number of off-types allowed would be 6. In addition a population standard of 5% with the same acceptance probability should be applied to clearly recognizable inbred plants. In the case of a sample size of 100 plants the additional maximum number of clearly recognizable inbred plants allowed would be 9.
3. All observations on the leaf should be made on the outer leaves of fully developed plants; all observations on the head should be made at harvest maturity.

#### V. Grouping of Varieties

1. The collection of varieties to be grown should be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety. Their various states of expression should be fairly evenly distributed throughout the collection.
2. It is recommended that the competent authorities use the following characteristics for grouping varieties:
  - (a) Leaf: color (excluding midrib) (characteristic 7)
  - (b) Leaf: anthocyanin coloration at harvest maturity (characteristic 11)
  - (c) Plant: head formation (characteristic 19)
  - (d) Head: shape in longitudinal section (characteristic 23).

#### VI. Characteristics and Symbols

1. To assess distinctness, homogeneity and stability, the characteristics and their states as given in the Table of Characteristics should be used.
2. Notes (numbers), for the purposes of electronic data processing, are given opposite the states of the different characteristics.
3. Legend:
  - (\*) Characteristics that should be used on all varieties in every growing period over which the examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.
  - (+) See Explanations on the Table of Characteristics in chapter VIII.

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

English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1. (*)</b>	<b>Young plant: anthocyanin coloration <u>at 5-6 leaf stage</u></b>	<b>Plantule: pigmentation anthocyanique <u>au stade 5 à 6 feuilles</u></b>	<b>Jungpflanze: Anthocyanfärbung <u>im 5- bis 6- Blattstadium</u></b>	<b>Planta joven: pigmentación antociánica <u>en estado 5 a 6 hojas</u></b>	
	absent	absente	fehlend	ausente	Pan di zucchero 1
	present	présente	vorhanden	presente	Palla rossa 2 9
<b>2. (*)</b>	<b>Plant: diameter (plant fully developed)</b>	<b>Plante: diamètre (plante entièrement développée)</b>	<b>Pflanze: Durchmesser (Pflanze voll entwickelt)</b>	<b>Planta: diámetro (planta totalmente desarrollada)</b>	
	very small	très petit	sehr klein	muy pequeño	Silla 1
	small	petit	klein	pequeño	Palla rossa 2 3
	medium	moyen	mittel	medio	Palla rossa 3 5
	large	grand	groß	grande	Pan di zucchero 7
	very large	très grand	sehr groß	muy grande	Catalogna puntarelle a foglia stretta 9
<b>3. (*)</b>	<b>Leaf: attitude</b>	<b>Feuille: port</b>	<b>Blatt: Haltung</b>	<b>Hoja: porte</b>	
	erect	dressé	aufrecht	erecto	Vérone 1
	semi-erect	demi-dressé	halbaufrecht	semierecto	Palla rossa 2 3
	horizontal	horizontal	waagrecht	horizontal	Selvatica da campo 5
<b>4. (*)</b>	<b>Leaf: length (at harvest maturity)</b>	<b>Feuille: longueur (à maturité de récolte)</b>	<b>Blatt: Länge (zur Erntereife)</b>	<b>Hoja: longitud (en la madurez de cosecha)</b>	
	very short	très courte	sehr kurz	muy corta	Silla, Zuccherina di Trieste 1
	short	courte	kurz	corta	Palla rossa 2 3
	medium	moyenne	mittel	media	Pan di zucchero 5
	long	longue	lang	larga	Rossa di Treviso 7
	very long	très longue	sehr lang	muy larga	Catalogna a foglie frastagliate 9

	English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>5. (*)</b>	<b>Leaf: width (as for 4)</b>	<b>Feuille: largeur (comme pour 4)</b>	<b>Blatt: Breite (wie unter 4)</b>	<b>Hoja: anchura (como para 4)</b>		
	very narrow	très étroite	sehr schmal	muy estrecha	Catalogna puntarelle a foglia stretta	1
	narrow	étroite	schmal	estrecha	Rossa di Treviso 2	3
	medium	moyenne	mittel	media	Silla, Pan di zucchero	5
	broad	large	breit	ancha	Variegata di Chioggia, Bianca invernale	7
	very broad	très large	sehr breit	muy ancha		9
<b>6. (*)</b>	<b>Leaf: shape</b>	<b>Feuille: forme</b>	<b>Blatt: Form</b>	<b>Hoja: forma</b>		
	narrow elliptic	elliptique étroit	schmal elliptisch	elíptica estrecha	Catalogna pugliese	1
	elliptic	elliptique	elliptisch	elíptica	Vérone	2
	broad elliptic	elliptique large	breit elliptisch	elíptica ancha	Pan di zucchero	3
	round	ronde	rund	redonda	Pluto, Silla	4
<b>7. (*)</b>	<b>Leaf: color (excluding midrib)</b>	<b>Feuille: couleur (à l'exclusion de la nervure médiane)</b>	<b>Blatt: Farbe (Mittelrippe ausgenommen)</b>	<b>Hoja: color (excluyendo el nervio central)</b>		
	yellow	jaune	gelb	amarillo	Bianca invernale	1
	green	verte	grün	verde	Pan di zucchero	2
	red	rouge	rot	rojo	Red Devil	3
<b>8. (*)</b>	<b>Leaf: intensity of color (as for 7)</b>	<b>Feuille: intensité de la couleur (comme pour 7)</b>	<b>Blatt: Intensität der Farbe (wie unter 7)</b>	<b>Hoja: intensidad del color (como para 7)</b>		
	light	claire	hell	claro		3
	medium	moyenne	mittel	medio		5
	dark	foncée	dunkel	oscuro		7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>9.</b>	<b>Leaf: glossiness</b>	<b>Feuille: brillance</b>	<b>Blatt: Glanz</b>	<b>Hoja: brillo</b>		
	weak	faible	gering	débil	Scarpia, Jupiter	3
	medium	moyenne	mittel	medio	Chioggia, Vérone	5
	strong	forte	stark	fuerte	Vulcano	7
<b>10. (*)</b>	<b>Leaf: color of midrib</b>	<b>Feuille: couleur de la nervure médiane</b>	<b>Blatt: Farbe der Mittelrippe</b>	<b>Hoja: color del nervio central</b>		
	whitish	blanchâtre	weißlich	blancuzco	Bianca invernale	1
	green	verte	grün	verde	Pan di zucchero	2
	red	rouge	rot	rojo	Medusa, Silla	3
<b>11. (*)</b>	<b>Leaf: anthocyanin coloration at <u>harvest maturity</u></b>	<b>Feuille: pigmentation anthocyanique à <u>maturité de récolte</u></b>	<b>Blatt: Anthocyanfärbung <u>zur Erntereife</u></b>	<b>Hoja: pigmentación antociánica <u>en la madurez de cosecha</u></b>		
	absent	absente	fehlend	ausente	Pan di zucchero	1
	present	présente	vorhanden	presente	Red Devil	9
<b>12.</b>	<b>Leaf: anthocyanin distribution (as for 4)</b>	<b>Feuille: distribution de l'anthocyane (comme pour 4)</b>	<b>Blatt: Verteilung des Anthocyan (wie unter 4)</b>	<b>Hoja: distribución de la antocianina (como para 4)</b>		
	localized	localisée	lokal begrenzt	localizada	Variegata di Lusìa	1
	entire	répartie sur toute la surface	auf der gesamten Blattfläche	esparcida	Palla rossa 2	2
<b>13. (*)</b>	<b>Leaf: type of anthocyanin distribution (as for 4)</b>	<b>Feuille: type de distribution de l'anthocyane (comme pour 4)</b>	<b>Blatt: Art der Verteilung des Anthocyan (wie unter 4)</b>	<b>Hoja: tipo de distribución de la antocianina (como para 4)</b>		
	diffused only	seulement diffuse	nur diffus	sólamente difusa	Red Devil	1
	in spots only	seulement en taches	nur in Flecken	sólamente en manchas	Variegata di Lusìa	2
	diffused and in spots	diffuse et en taches	diffus und in Flecken	difusa y en manchas	Variegata di Castelfranco	3

English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>14. Leaf: profile of upper surface</b>	<b>Feuille: profil de la face supérieure</b>	<b>Blatt: Profil der Oberseite</b>	<b>Hoja: perfil del haz</b>		
strongly concave	fortement concave	stark konkav	fuertemente cóncavo	Palla rosa 2	1
weakly concave	faiblement concave	schwach konkav	débilmente cóncavo		2
flat	plane	eben	plano	Rossa di Treviso 2	3
weakly convex	faiblement convexe	schwach konvex	débilmente convexo		4
strongly convex	fortement convexe	stark konvex	fuertemente convexo		5
<b>15. Leaf: blistering (*)</b>	<b>Feuille: cloqure</b>	<b>Blatt: Blasigkeit</b>	<b>Hoja: abullonado</b>		
absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Vérone	1
weak	faible	gering	débil	Villa, Pan di zucchero	3
medium	moyenne	mittel	media		5
strong	forte	stark	fuerte	Jupiter	7
very strong	très forte	sehr stark	muy fuerte		9
<b>16. Leaf: undulation of margin</b>	<b>Feuille: ondulation du bord</b>	<b>Blatt: Randwellung</b>	<b>Hoja: ondulación del margen</b>		
absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Rossa di Treviso 2	1
weak	faible	gering	débil	Variegata di Chioggia	3
medium	moyenne	mittel	media	Barba di cappuccino, 24 Ore	5
strong	forte	stark	fuerte		7
very strong	très forte	sehr stark	muy fuerte		9



	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>17.</b>	<b>Leaf: depth of incisions of margin</b>	<b>Feuille: profondeur des incisions du bord</b>	<b>Blatt: Tiefe der Randeinschnitte</b>	<b>Hoja: profundidad de las incisiones del margen</b>		
	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Palla rossa 2	1
	weak	faible	gering	débil	A grumolo bionda	3
	medium	moyenne	mittel	media	24 Ore	5
	strong	forte	stark	fuerte	Catalogna puntarelle di Galatina	7
	very strong	très forte	sehr stark	muy fuerte	Catalogna puntarelle di Gaeta	9
<b>18.</b>	<b>Leaf: type of incision of margin</b>	<b>Feuille: type d'incision du bord</b>	<b>Blatt: Art der Randeinschnitte</b>	<b>Hoja: tipo de incisión del margen</b>		
	sinuate	sinué	gebuchtet	sinuosa	Zucherina di Trieste	1
	dentate	denté	gezähnt	dentada	Catalogna gigante di Chioggia, Karyvos	2
	serrate	dentelé	gesägt	serrada	Catalogna a foglie frastagliate	3
<b>19. (*)</b>	<b>Plant: head formation</b>	<b>Plante: formation de la pomme</b>	<b>Pflanze: Kopfbildung</b>	<b>Planta: formación del repollo</b>		
	absent	absente	fehlend	ausente	Catalogna gigante di Chioggia	1
	present	présente	vorhanden	presente	Palla rossa 2	9
<b>20. (*)</b>	<b>Plant: intensity of head formation</b>	<b>Plante: intensité de la formation de la pomme</b>	<b>Pflanze: Stärke der Kopfbildung</b>	<b>Planta: intensidad de la formación del repollo</b>		
	weak	faible	gering	débil	Améliorée blonde	3
	medium	moyenne	mittel	media	A grumolo bionda, Pan di zucchero	5
	strong	forte	stark	fuerte	Palla rossa 2	7

	English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>21.</b>	<b>Head: length</b>	<b>Pomme: longueur</b>	<b>Kopf: Länge</b>	<b>Repollo: longitud</b>		
(*)						
	short	courte	kurz	corta	Palla rossa 2	3
	medium	moyenne	mittel	media	Bianca di Milano, Jupiter	5
	long	longue	lang	larga	Pan di zucchero	7
<b>22.</b>	<b>Head: diameter</b>	<b>Pomme: diamètre</b>	<b>Kopf: Durchmesser</b>	<b>Repollo: diámetro</b>		
(*)						
	small	petit	klein	pequeño	Silla	3
	medium	moyen	mittel	medio	Palla rossa 2	5
	large	grand	groß	grande	Palla rossa 5	7
<b>23.</b>	<b>Head: shape in longitudinal section</b>	<b>Pomme: forme en section longitudinale</b>	<b>Kopf: Form im Längsschnitt</b>	<b>Repollo: forma en sección longitudinal</b>		
(*)						
	rectangular	rectangulaire	rechteckig	rectangular		1
	elliptic	elliptique	elliptisch	elíptico	Nerone, Vulcane	2
	ovate	ovale	eiförmig	ovalado	Bianca di Milano	3
	circular	arrondie	rund	circular	Silla	4
	transverse elliptic	elliptique transverse	quer elliptisch	elíptico transverso	Palla rossa 2	5
<b>24.</b>	<b>Head: main color of outer leaves</b>	<b>Pomme: couleur principale des feuilles externes</b>	<b>Kopf: Hauptfarbe der Außenblätter</b>	<b>Repollo: color principal de las hojas exteriores</b>		
(*)						
	yellow	jaunes	gelb	amarillas	Bianca invernale	1
	green	vertes	grün	verdes	Pan di zucchero	2
	red	rouges	rot	rojas	Red Devil	3
<b>25.</b>	<b>Head: intensity of color of outer leaves</b>	<b>Pomme: intensité de la couleur des feuilles externes</b>	<b>Kopf: Intensität der Farbe der Außenblätter</b>	<b>Repollo: intensidad del color en las hojas exteriores</b>		
	light	claire	hell	claro		3
	medium	moyenne	mittel	medio		5
	dark	foncée	dunkel	oscuro		7

	English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
<b>26. (*)</b>	<b>Head: anthocyanin coloration of outer leaves</b>	<b>Pomme: pigmentation anthocyanique des feuilles externes</b>	<b>Kopf: Anthocyan-färbung der Außenblätter</b>	<b>Repollo: pigmentación antocianica de las hojas exteriores</b>		
	absent	absente	fehlend	ausente	Pan di zucchero	1
	present	présente	vorhanden	presente	Red Devil, Variegata di Lusìa	9
<b>27. (*)</b>	<b>Head: anthocyanin distribution in outer leaves</b>	<b>Pomme: distribution de l'anthocyane sur les feuilles externes</b>	<b>Kopf: Anthocyan- verteilung in den Außenblättern</b>	<b>Repollo: distribución de la antocianina en las hojas exteriores</b>		
	localized	localisée	lokal begrenzt	localizada	Variegata di Lusìa	1
	entire	répartie sur toute la surface	auf der gesamten Blattfläche	esparcida	Red Devil	2
<b>28. (*)</b>	<b>Plant: stem: formation at harvest maturity</b>	<b>Plante; formation d'une tige à l'époque de maturité de récolte</b>	<b>Pflanze: Stengelbildung zum Zeitpunkt der Ernte</b>	<b>Planta: formación de tallo en la fecha de madurez de cosecha</b>		
	absent	absente	fehlend	ausente	Palla rossa 2	1
	present	présente	vorhanden	presente	Catalogna puntarelle a foglia frastagliata	9
<b>29.</b>	<b><u>Stem forming types only</u>: Stem: degree of fasciation</b>	<b><u>Seulement les variétés formant une tige</u>: Tige: intensité de la fasciation</b>	<b><u>Nur Sorten mit Stengelbildung</u>: Stengel: Stärke der Verbänderung</b>	<b><u>Solo variedades que forman tallo</u>: Tallo: grado de fasciación</b>		
	weak	faible	gering	baja	Clio, Koryvos	3
	medium	moyenne	mittel	media	Catalogna pugliese	5
	strong	forte	stark	alta	Catalogna puntarelle di Gaeta	7
<b>30.</b>	<b>Flower: color</b>	<b>Fleur: couleur</b>	<b>Blüte: Farbe</b>	<b>Flor: color</b>		
	white	blanche	weiß	blanco	Koryvos	1
	blue	bleue	blau	azul	Barba di cappuccino	2

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>31. (*)</b>	<b>Time of harvest maturity</b>	<b>Époque de maturité de récolte</b>	<b>Zeitpunkt der Erntereife</b>	<b>Fecha de madurez de cosecha</b>		
	early	précoce	früh	temprana	Palla rossa 2	3
	medium	moyenne	mittel	media	Pan di zucchero	5
	late	tardive	spät	tardía	A grumola verde, Barba di cappuccino	7
<b>32.</b>	<b>Time of beginning of bolting</b>	<b>Époque de début de montaison</b>	<b>Zeitpunkt des Schoßbeginns</b>	<b>Fecha del comienzo de la salida a flor</b>		
	very early	très précoce	sehr früh	muy temprana	Catalogna pugliese, Koryvos	1
	early	précoce	früh	temprana	Poncho	3
	medium	moyen	mittel	media	Verone	5
	late	tardif	spät	tardía	Giulio	7
	very late	très tardif	sehr spät	muy tardía	Lady	9

VIII. Explanation on the Table of Characteristics

no specific explanations

## IX. Literature

Adinolfi, A., Bianchi, M. & Frusciante, E., 1995: "Caratterizzazione Morfo-Fisiologica Delle Varietà di Cicoria a Foglia Verde Iscritte al Registro Nazionale," Ente Nazionale Sementi Elette (E.N.S.E.), Milan, Quaderno n. Dell' E.N.S.E., No. 45.

Ryder, E., 1979: "Leafy Salad Vegetable," AVI Publishing Company, Westport, Connecticut.

X. Technical Questionnaire

	Reference Number (not to be filled in by the applicant)
<p>TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights</p>	
1. Species	<p><i>Cychorium intybus</i> L. partim  LEAF CHICORY</p>
2. Applicant (Name and address)	
3. Proposed denomination or breeder's reference	
4. Information on origin, maintenance and reproduction of the variety	

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the state of expression which best corresponds).

Characteristics	Example Varieties	Note
<b>5.1 Leaf: color (excluding midrib)</b> (7)		
yellow	Bianca invernale	1[ ]
green	Pan di zucchero	2[ ]
red	Red Devil	3[ ]
<b>5.2 Leaf: color of midrib</b> (10)		
whitish	Bianca invernale	1[ ]
green	Pan di zucchero	2[ ]
red	Medusa, Silla	3[ ]
<b>5.3 Leaf: anthocyanin coloration <u>at harvest maturity</u></b> (11)		
absent	Pan di zucchero	1[ ]
present	Red Devil	9[ ]
<b>5.4 Plant: head formation</b> (19)		
absent	Catalogna gigante di Chioggia	1[ ]
present	Palla rossa 2	9[ ]
<b>5.5 Head: shape of longitudinal section</b> (23)		
rectangular		1[ ]
elliptic	Nerone, Vulcano	2[ ]
ovate	Bianci di Milano	3[ ]
circular	Silla	4[ ]
transverse elliptic	Palla rossa 2	5[ ]



Characteristics	Example Varieties	Note
<b>5.6 Head: main color of outer leaves (24)</b>		
yellow	Bianca invernale	1[ ]
green	Pan di zucchero	2[ ]
red	Red Devil	3[ ]
<b>5.7 Head: anthocyanin coloration of outer leaves (26)</b>		
absent	Pan di zucchero	1[ ]
present	Red Devil, Variegata di Lusia	9[ ]
<b>5.8 Plant : stem formation at harvest maturity (28)</b>		
absent	Palla rossa 2	1[ ]
present	Catalogna puntarelle a foglia frastagliata	9[ ]

6. Similar varieties and differences between these varieties

Denomination of similar variety	Characteristic in which the similar variety is different <sup>o)</sup>	State of expression of similar variety	State of expression of candidate variety

<sup>o)</sup> In the case of identical states of expressions of both varieties, please indicate the size of the difference.

7. Additional information which may help to distinguish the variety

7.1 Resistance to pests and diseases

7.2 Special conditions for the examination of the variety

(a) Cultural type of plant

- cutting [ ]
- head [ ]
- leaves and stems [ ]

(b) Other conditions

7.3 Other information

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