



TG/8/6

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**

**FIELD BEAN**

*(Vicia faba L. var. minor )*

**GENEVA**  
**2002**

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*(Vicia faba L. var. minor)*

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 Field Bean (*Vicia faba* L. var. *minor*).

## II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the plant material 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 ensure that all customs formalities are complied with. The minimum quantity of seed to be supplied by the applicant is :

3 kg or 6000 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. 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 independent growing cycles.

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 satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. 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 cycle. Each test should be designed to result in a total of at least 160 plants, which should be divided between 2 or more replicates. Separate plots for observation and for measuring should 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. Unless otherwise stated, all observations on spaced plants should be made on 60 plants or part taken from each of 60 plants.

2. Unless otherwise indicated, the assessment of uniformity for cross-pollinated varieties should be according to the recommendations in the General Introduction.

#### 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) Wing: melanin spot (characteristic 8)
- (b) Plant: growth type (characteristic 12)
- (c) Dry seed: color of testa (characteristic 19)

#### VI. Characteristics and Symbols

1. To assess distinctness, uniformity 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 expression for each characteristic. For certain characteristics, different example varieties, separated by a semicolon, are indicated for spring types and winter types of field bean. Where winter varieties are indicated, they follow the semicolon.

#### 3. Legend

(\*) Characteristics that should be used on all varieties in every growing cycle over which 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.

1) The optimum stage of development for the assessment of each characteristic is indicated by a number in the second column. The stages of development denoted by each number are described at the end of Chapter VIII.

MG: 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 observations of a number of individual plants or parts of plants

VII. Table of Characteristics/Tableaude caractères/Merkmalstabelle/Tabladecaracteres

Stage <sup>1)</sup> Stade <sup>1)</sup> Stadium <sup>1)</sup> Estado <sup>1)</sup>	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>1. 19-61</b> <b>VG</b>	<b>Foliage: color</b>	<b>Feuillage: couleur</b>	<b>Laub: Farbe</b>	<b>Follaje: color</b>		
	light green	vert clair	hellgrün	verde claro	Tista; Hiverna	1
	medium green	vert moyen	mittelgrün	verde medio	Gloria	2
	dark green	vert foncé	dunkelgrün	verde oscuro		3
	bluish green	vert bleuâtre	bläulichgrün	verde azulado		4
	greyish green	vert grisâtre	gräulichgrün	verde grisáceo	Columbo	5
<b>2. 61</b> <b>(*) MS</b>	<b>Time of flowering (50% of the plants with at least one flower)</b>	<b>Époque de floraison (50% des plantes avec au moins une fleur)</b>	<b>Blühzeitpunkt (50% der Pflanzen zeigen wenigstens eine Blüte)</b>	<b>Época de floración (50% de las plantas con al menos una flor)</b>		
	very early	très précoce	sehr früh	muy temprana		1
	early	précoce	früh	temprana	Pistache	3
	medium	moyenne	mittel	media	Victor	5
	late	tardive	spät	tardía	Vasco	7
	very late	très tardive	sehr spät	muy tardía	; Hiverna *	9
<b>3. 61-71</b> <b>VG</b>	<b><u>Only varieties with melanin spot: Stem: anthocyanin coloration</u></b>	<b><u>Seulement pour les variétés avec tache de mélanine: Tige: pigmentation anthocyanique</u></b>	<b><u>Nur Sorten mit Melaninfleck: Trieb: Anthocyanfärbung</u></b>	<b><u>Sólo para variedades con manchado de melanina: Tallo: pigmentación antocianica</u></b>		
	weak	faible	gering	débil	Pistache, Divine	3
	medium	moyenne	mittel	media	Victor	5
	strong	forte	stark	fuerte		7

\* inspringsown trial  
essais eméa printemps  
bei Fröhjahraussaat  
ensayos sembrados en primavera

Stage <sup>1)</sup> Stade <sup>1)</sup> Stadium <sup>1)</sup> Estado <sup>1)</sup>	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>4.</b> 61-65 (* (+) MS	<b>Leaflet:length</b> (basal pair of leaflets at second flowering node)	<b>Foliole:longueur</b> (paire basale de folioles au 2 <sup>e</sup> nœud florifère)	<b>Fiederblatt: Länge</b> (Basisfieder- blattpaar am zweiten blühenden Knoten)	<b>Foliolo:longitud</b> (par de foliolos basales en el segundo nudo floral)		
	short	courte	kurz	corto	Pistache; Delta	3
	medium	moyenne	mittel	medio	Victor	5
	long	longue	lang	largo	Limbo	7
<b>5.</b> 61-65 (* (+) MS	<b>Leaflet:width</b> (as for 4)	<b>Foliole:largeur</b> (comme pour 4)	<b>Fiederblatt: Breite</b> (wie unter 4)	<b>Foliolo:anchura</b> (como para 4)		
	narrow	étroite	schmal	estrecho	Castel	3
	medium	moyenne	mittel	medio	Columbo; Karl	5
	broad	large	breit	ancho	Condor	7
<b>6.</b> 61-65 (* (+) VS	<b>Leaflet:position of maximum width (as for 4)</b>	<b>Foliole:position de la largeur maximale (comme pour 4)</b>	<b>Fiederblatt: Stellung der höchsten Breite (wie unter 4)</b>	<b>Foliolo:punto de anchura máxima (como para 4)</b>		
	toward tip	vers le sommet	zur Spitze	hacia el ápice	Pistache	1
	at middle	au milieu	in der Mitte	en la zona central	Signal	2
	toward base	vers la base	zur Basis	hacia la base	Victor	3
<b>7.</b> 61-65 (* (+) MS	<b>Flower:length</b>	<b>Fleur:longueur</b>	<b>Blüte:Länge</b>	<b>Flor:longitud</b>		
	short	courte	kurz	corta	Pistache	3
	medium	moyenne	mittel	media	Caspar	5
	long	longue	lang	larga	Victor	7
<b>8.</b> 61-65 (* (+) VG	<b>Wing:melanin spot</b>	<b>Aile:tâche de mélanine</b>	<b>Flügel: Melaninfleck</b>	<b>Quilla:mancha de melanina</b>		
	absent	absente	fehlend	ausente	Caspar	1
	present	présente	vorhanden	presente	Victor	9



Stage <sup>1)</sup> Stade <sup>1)</sup> Stadium <sup>1)</sup> Estado <sup>1)</sup>	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>9. 61-65</b> <b>VG</b>	<b>Wing:color of melanin spot</b>	<b>Aile:couleur de latâche de mélanine</b>	<b>Flügel:Farbe des Melaninflecks</b>	<b>Quilla:color de la manchada melanina</b>		
	brown	brune	braun	marrón	Goldrush	1
	black	noire	schwarz	negro	Condor	2
	greenish yellow	jaune verdâtre	grünlichgelb	amarillo verdoso		3
<b>10. 61-65</b> <b>(*) VG</b>	<b>Standard: anthocyanin coloration</b>	<b>Étendard: pigmentation anthocyanique</b>	<b>Fahne: Anthocyan-färbung</b>	<b>Estandarte: pigmentación antociánica</b>		
	absent	absente	fehlend	ausente	Caspar	1
	present	présente	vorhanden	presente	Pistache, Condor	9
<b>11. 61-65</b> <b>(+) VG</b>	<b>Standard: extent of anthocyanin coloration</b>	<b>Étendard: extension de la pigmentation anthocyanique</b>	<b>Fahne: Ausmaß der Anthocyan-färbung</b>	<b>Estandarte: extensión de la pigmentación antociánica</b>		
	small	faible	gering	pequeña	Pistache	3
	medium	moyenne	mittel	media	;Hiverna	5
	large	forte	groß	grande		7
<b>12. 71-81</b> <b>(+) VG</b>	<b>Plant: growth type</b>	<b>Plante: type de croissance</b>	<b>Pflanze: Wuchstyp</b>	<b>Planta: hábito de crecimiento</b>		
	determinate	déterminée	begrenzt wachsend	determinado	Tista	1
	indeterminate	indéterminée	unbegrenzt wachsend	indeterminado	Condor	2
<b>13. 71-81</b> <b>(*) MS</b>	<b>Plant: height</b>	<b>Plante: hauteur</b>	<b>Pflanze: Höhe</b>	<b>Planta: altura</b>		
	short	basse	niedrig	baja	Pistache	3
	medium	moyenne	mittel	media	Columbo	5
	tall	haute	hoch	alta	Condor	7

Stage <sup>1)</sup> Stade <sup>1)</sup> Stadium <sup>1)</sup> Estado <sup>1)</sup>	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>14. 71-81</b>  MS	<b>Stem: number of nodes (upto and including first flowering node)</b>	<b>Tige: nombre de nœuds (jusqu'au premier nœud florifère inclus)</b>	<b>Trieb: Anzahl Knoten (bis einschließlich des ersten blühenden Knotens)</b>	<b>Tallo: número de nudos (hasta el primer nudo floral incluido)</b>		
	few	faible	gering	bajo	Columbo	3
	medium	moyen	mittel	medio	Caspar	5
	many	élevé	groß	alto	Vasco	7
<b>15. 71-81</b> (* MS	<b>Pod: length (without beak)</b>	<b>Gousse: longueur (sans le bec)</b>	<b>Hülse: Länge (ohne Zahn)</b>	<b>Vaina: longitud (sin el pico)</b>		
	very short	très courte	sehr kurz	muy corta	MarisBead	1
	short	courte	kurz	corta	Condor	3
	medium	moyenne	mittel	media	Gloria	5
	long	longue	lang	larga	Caspar, Vasco	7
<b>16. 71-81</b>  MS	<b>Pod: width (from suture to suture)</b>	<b>Gousse: largeur (d'une suture à l'autre)</b>	<b>Hülse: Breite (von Naht zu Naht)</b>	<b>Vaina: anchura (desutura a sutura)</b>		
	narrow	étroite	schmal	estrecha	Condor	3
	medium	moyenne	mittel	media	Pistache	5
	broad	large	breit	ancha	Victor	7
<b>17. 89</b> (+) VS	<b>Dry seed: shape of median longitudinal section</b>	<b>Grainesèche: forme de la section longitudinale médiane</b>	<b>Trockenkorn: Form des medianen Längsschnitts</b>	<b>Grano seco: forma de la sección longitudinal media</b>		
	circular	circulaire	rund	circular	MarisBead	1
	elliptic	elliptique	elliptisch	elíptica	Condor	2
	irregular	irrégulière	unregelmäßig	irregular	Columbo	3

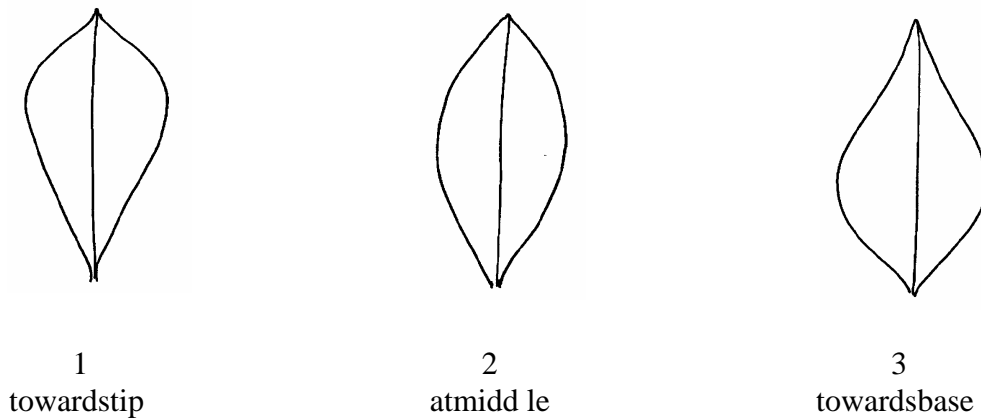
Stage <sup>1)</sup> Stade <sup>1)</sup> Stadium <sup>1)</sup> Estado <sup>1)</sup>	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
<b>18. 89</b> (* MG	<b>Dryseed: 100 seedweight</b>	<b>Grainesèche: poids de 100 graines</b>	<b>Trockenkorn: Hundertkorn-gewicht</b>	<b>Grano seco: peso de 100 granos</b>		
	low	faible	niedrig	pequeño	Condor, Gloria	3
	medium	moyen	mittel	medio	Victor	5
	high	élevé	hoch	grande	Pistache	7
<b>19. 89</b> (* (+) VS	<b>Dryseed: color of testa (immediately after harvest)</b>	<b>Grainesèche: couleur du tégument (immédiatement après la récolte)</b>	<b>Trockenkorn: Farbeder Samenschale (gleich nach der Ernte)</b>	<b>Grano seco: color de la testa (justo después de la cosecha)</b>		
	beige	beige	beige	beige	Condor	1
	grey beige	grège	graubeige	beige grisáceo	Caspar	2
	green	vert	grün	verde	Palacio	3
	red	rouge	rot	rojo		4
	violet	violet	violett	violeta		5
	black	noir	schwarz	negro	Tyrol	6
<b>20. 89</b> (* (+) VS	<b>Dryseed: black pigmentation of hilum</b>	<b>Grainesèche: pigmentation noire du hile</b>	<b>Trockenkorn: schwarze Pigmentierung des Nabels</b>	<b>Grano seco: coloración negra del hilum</b>		
	absent	absente	fehlend	ausente	Victor	1
	present	présente	vorhanden	presente	Condor	9

VIII. ExplanationsontheTableofCharacteristics

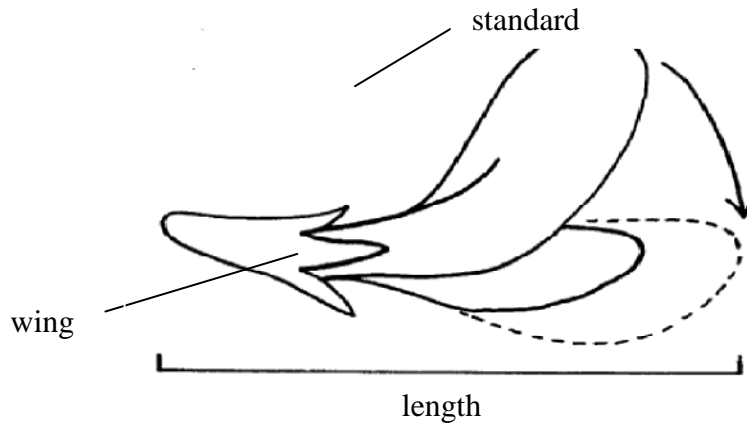
Ad. 4 and 5: Leaflet: length (basal pair of leaflets at second flowering node) and Leaflet:width(asfor4)

Ifthereisanydifferenceinsizebetweenthe twopairs of leaflets, the bigger should be observed.

Ad6:Leaflet:positionofmaximumwidth



Ad7:Flower:length

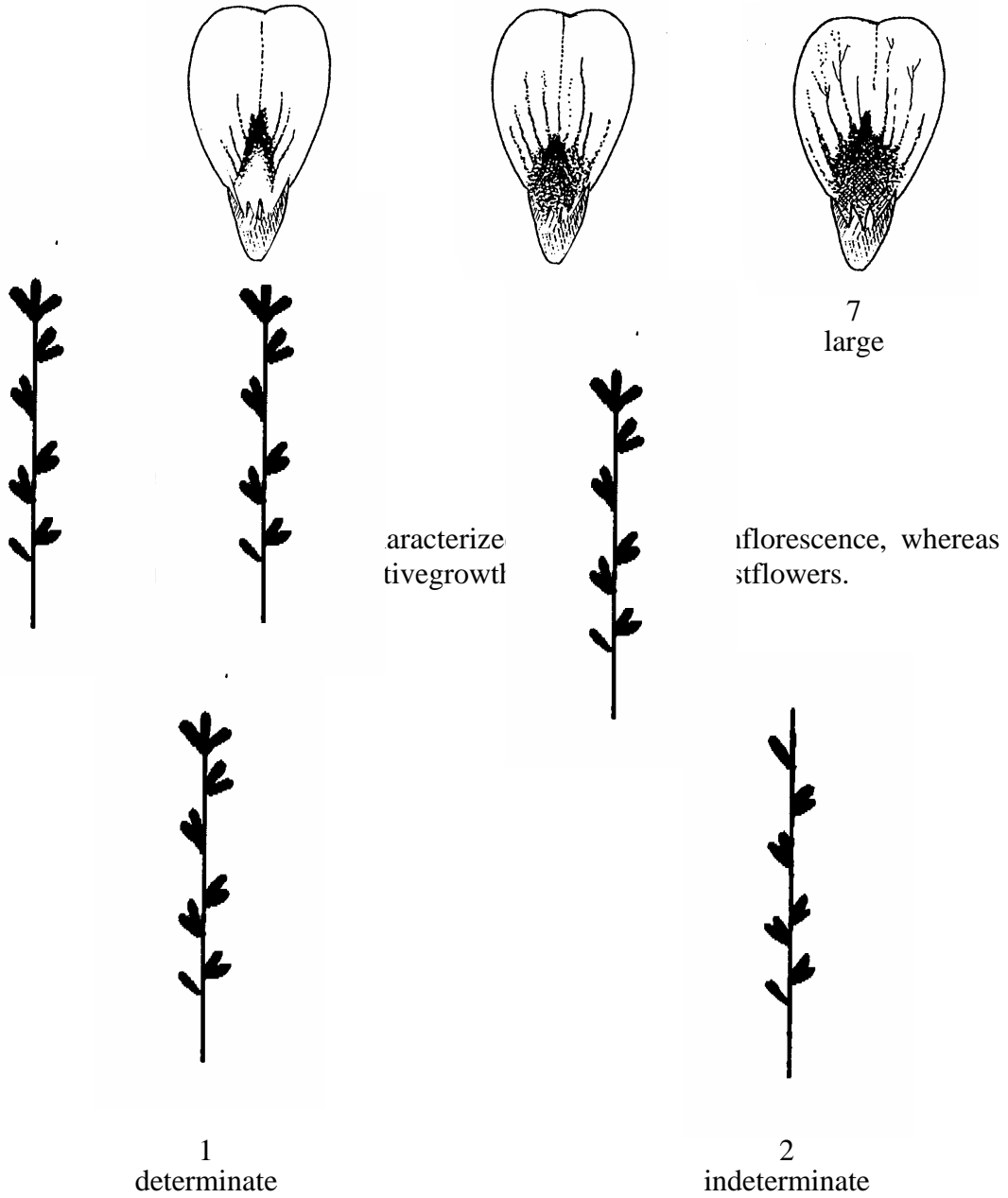


Ad8:Wing:melaninspot

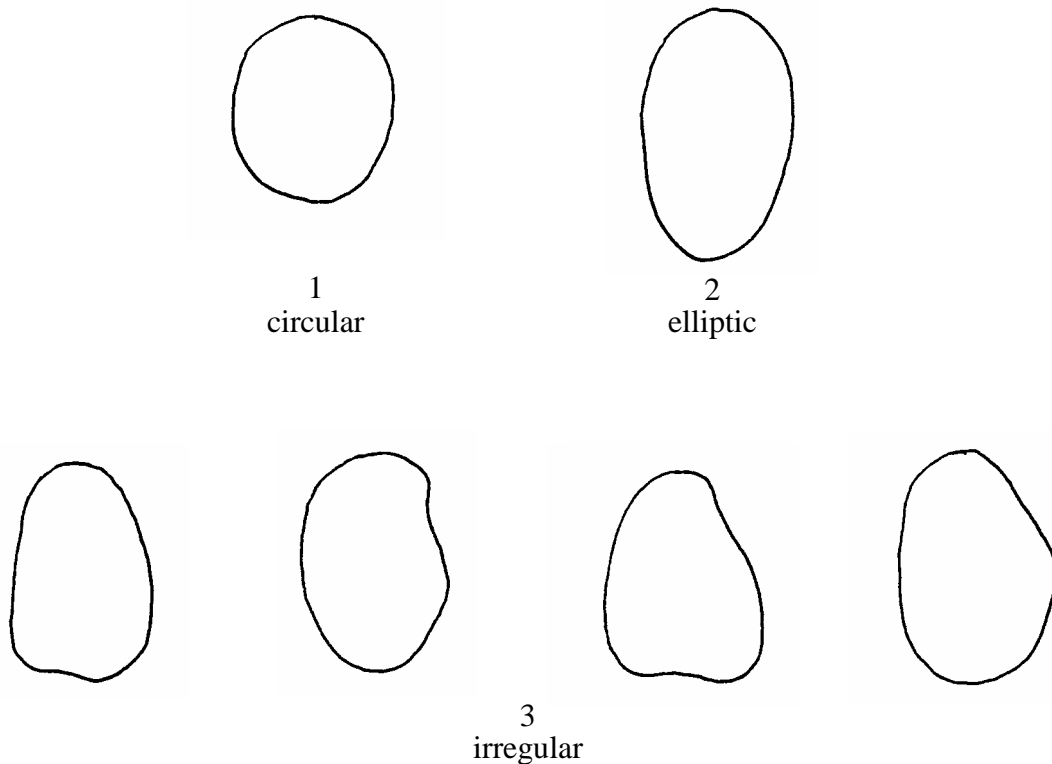
Melaninspotonthe flowerwingcorrelateswithtannincontentof testa. Therefore, this characteristic can also be assessed by using the following method. The content of tannin shouldbetestedbyremovingapieceofthetestafromtheseedandplacing 1 or 2 drops of the testreagentuponits innersurface. A brightpink colorwill develop within 1 or 2 minutes in thepresenceoftannins(Reagent:A=50% ethanol;B= 1% vanillininconc.HCl; ReagentsA andBmixed1:1foruse).

Ad11:Standard:extentofanthocyanincoloration

The observation is made on the inner side of the standard.



Ad17:Dryseed:shapeofmedianlongitudinalsection



Ad19:Dryseed:coloroftesta(imm ediatelyafterharvest)

Seeds that are beige immediately after harvest will become brown after ageing if they contain tannin.

Ad20:Dryseed:blackpigmentationofhilum

A population standard of 5% with an acceptance probability of at least 95% is recommended for the assessment of uniformity. Certain varieties, which by their genetic structure show segregation in respect of this characteristic, are admissible provided that the breeder is able to ensure stability. However, this characteristic can not be used for establishing distinctness of varieties mentioned in the previous sentence. For varieties which show segregation, the characteristic should be described in the state "present" and the proportions of the two states of expression should, in each individual case, be included in the description.

Phenological growth stages and BBCH -identification keys of *Vicia faba* L.(Meier,1997)

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<b>Code</b>	<b>Description</b>
<b>Principal growth stage 0: Germination</b>	
00	Dry seed
01	Beginning of seed imbibition
02	–
03	Seed imbibition complete
04	–
05	Radicle emerged from seed
06	–
07	Shoot emerged from seed (plumule apparent)
08	Shoot growing towards soil surface
09	Emergence shoot emerges through soil surface
<b>Principal growth stage 1: Leaf development</b> <sup>1</sup>	
10	Pair of scale leaves visible (may be eaten or lost)
11	First leaf unfolded
12	2 leaves unfolded
13	3 leaves unfolded
14	4 leaves unfolded
15	5 leaves unfolded
16	6 leaves unfolded
17	7 leaves unfolded
18	8 leaves unfolded
19	9 or more leaves unfolded
<b>Principal growth stage 2: Formation of side shoots</b>	
20	No side shoots
21	Beginning of side shoot development: first side shoot detectable
22	2 side shoots detectable
23	3 side shoots detectable
24	4 side shoots detectable
25	5 side shoots detectable
26	6 side shoots detectable
27	7 side shoots detectable
28	8 side shoots detectable
29	End of side shoot development: 9 or more side shoots detectable

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<sup>1</sup> Stem elongation may occur earlier than stage 19; in this case continue with the principal stage 3.

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<b>Code</b>	<b>Description</b>
<b>Principal growth stage 3: Stem elongation</b>	
30	Beginning of stem elongation
31	One visibly extended internode <sup>2</sup>
32	2 visibly extended internodes
33	3 visibly extended internodes
34	4 visibly extended internodes
35	5 visibly extended internodes
36	6 visibly extended internodes
37	7 visibly extended internodes
38	8 visibly extended internodes
39	9 or more visibly extended internodes
<b>Principal growth stage 4: -----</b>	
<b>Principal growth stage 5: Inflorescence emergence</b>	
50	Flower buds present, still enclosed by leaves
51	First flower buds visible outside leaves
52	–
53	–
54	–
55	First individual flower buds visible outside leaves but still closed
56	–
57	–
58	–
59	First petals visible, many individual flower buds, still closed
<b>Principal growth stage 6: Flowering</b>	
60	First flowers open
61	Flowers open on first raceme
62	–
63	Flowers open 3 racemes per plant
64	–
65	Full flowering: flowers open on 5 racemes per plant
66	–
67	Flowering declining
68	–
69	End of flowering

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<sup>2</sup> First internode extends from the scale leaf node to the first true leaf node.



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<b>Code</b>	<b>Description</b>
<b>Principalgrowthstage7:Developmentoffruit</b>	
70	Firstpodshavereachedfinallength(“flatpod”)
71	10%ofpodshavereachedfinallength
72	20%ofpodshavereachedfinallength
73	30%ofpodshavereachedfinallength
74	40%ofpodshavereachedfinallength
75	50%ofpodshavereachedfinallength
76	60%ofpodshavereachedfinallength
77	70%ofpodshavereachedfinallength
78	80%ofpodshavereachedfinallength
79	Nearlyallpodshavereachedfinallength
<b>Principalgrowthstage8:Ripening</b>	
80	Beginningofripening:seedgreen,fillingpodcavity
81	10%ofpodsripe,seedsdryandhard
82	20%ofpodsripe,seedsdryandhard
83	30%ofpodsripeanddark,seedsdryandhard
84	40%ofpodsripeanddark,seedsdryandhard
85	50%ofpodsripeanddark,seedsdryandhard
86	60%ofpodsripeanddark,seedsdryandhard
87	70%ofpodsripeanddark,seedsdryandhard
88	80%ofpodsripeanddark,seedsdryandhard
89	Fullyripe:nearlyallpodsdark,seedsdryandhard
<b>Principalgrowthstage9:Senescence</b>	
90	–
91	–
92	–
93	Stemsbegintodarken
94	–
95	50%ofstems brownorblack
96	–
97	Plantdeadanddry
98	–
99	Harvestedproduct

## IX. Literature

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X. TechnicalQuestionnaire

	ReferenceNumber (nottobefilledinbytheapplicant)
<p>TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders' rights</p>	
1. Species	<p><i>Viciafaba L.var.minor</i>  FIELDBEAN</p>
2. Applicant(Nameandaddress)	
3. Proposeddenominationorbreeder'sreference	

4. Information on origin, maintenance and reproduction of the variety

4.1 Variety type

Open pollinated variety

Other type  
(to be indicated)

4.2 Genetic origin and breeding method

4.3 Other information

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 Time of flowering (50% of the plants with at least one flower) (2)</b>		
very early		1[]
early	Pistache	3[]
medium	Victor	5[]
late	Vasco	7[]
very late	Hiverna <sup>*)</sup>	9[]
<b>5.2 Wing: melanin spot (8)</b>		
absent	Caspar	1[]
present	Victor	9[]
<b>5.3 Plant: growth type (12)</b>		
determinate	Tista	1[]
indeterminate	Condor	2[]
<b>5.4 Plant: height (13)</b>		
short	Pistache	3[]
medium	Columbo	5[]
tall	Condor	7[]
<b>5.5 Dry seed: 100 seed weight (18)</b>		
low	Condor, Gloria	3[]
medium	Victor	5[]
high	Pistache	7[]

<sup>\*)</sup>In spring sown trials.

Characteristics	Example Varieties	Note	
<b>5.6 Dryseed:coloroftesta(immediatelyafterharvest) (19)</b>			
beige	Condor	1[]	
greybeige	Caspar	2[]	
green	Palacio	3[]	
red		4[]	
violet		5[]	
black	Tyrol	6[]	
6. Similarvarietiesanddifferencesfromthesevarieties			
Denominationof similarvariety	Characteristicin whichthesimilar varietyisdifferent <sup>o)</sup>	Stateofexpressionof similarvariety	Stateofexpressionof candidatevariety
<p><sup>o)</sup> Inthecaseofidenticalstatesofexpressions ofbothvarieties,pleaseindicatethesizeof thedifference.</p>			

7. Additional information which may help to distinguish the variety

7.1 Resistanceto pests and diseases

7.2 Special conditions for the examination of the variety

Type of development: spring type

winter type

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 that question is yes, please attach a copy of such an authorization.

[End of document]