

TG/VIGNA_RAD(proj.1) ORIGINAL: English DATE: 2023-04-06

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

MUNG BEAN

UPOV Code(s): VIGNA_RAD

Vigna radiata (L.) R. Wilczek

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from China to be considered by the Technical Working Party for Agricultural Crops at its fifty-second session, to be held virtually from 2023-05-22 to 2023-05-26

Disclaimer: this document does not represent UPOV policies or guidance

Alternative names:*

Botanical name	English	French	German	Spanish
<i>Vigna radiata</i> (L.) R. Wilczek	Mung Bean	Haricot mungo	Mungbohne, Mungobohne	Frijol mungo

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

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1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of Vigna radiata (L.) R. Wilczek.

2. <u>Material Required</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 formalities and phytosanitary requirements are complied with.
- 2.2 The material is to be supplied in the form of seed.
- 2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

1000 g or at least 10,000 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.

- 2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 2.5 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. <u>Method of Examination</u>

- 3.1 Number of Growing Cycles
- 3.1.1 The minimum duration of tests should normally be two independent growing cycles.
- 3.1.2 The two independent growing cycles should be in the form of two separate plantings.
- 3.1.3 The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test.
- 3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

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 Each test should be designed to result in a total of at least 100 plants, which should be divided between at least 2 replicates.
- 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 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.

To assess distinctness of hybrids, the parent lines and the formula may be used according to the following recommendations:

(i) description of parent lines according to the Test Guidelines;

(ii) check of the originality of the parent lines in comparison with the variety collection, based on the characteristics in Chapter 7, in order to identify similar parent lines;

(iii) check of the originality of the hybrid formula in relation to the hybrids in the variety collection, taking into account the most similar lines; and

(iv) assessment of the distinctness at the hybrid level for varieties with a similar formula.

Further guidance is provided in documents TGP/9 "Examining Distinctness" and TGP/8 "Trial Design and Techniques Used in the Examination of Distinctness, Uniformity and Stability".

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

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.

4.1.4 Number of Plants or Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 20 plants or parts of plants taken from each of 20 plants and any other observations made on all plants in the test, disregarding any off-type plants.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

MG: single 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 observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g.

color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

- 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 These Test Guidelines have been developed for the examination of seed-propagated varietes. For varieties with other types of propagation, the recommendations in the General Introduction and document TGP/13 "Guidance for new types and species" Section 4.5 "Testing Uniformity" should be followed.
- 4.2.3 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction.
- 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 further examined by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. <u>Grouping of Varieties and Organization of the Growing Trial</u>

- 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 are 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 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 trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

- 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
- 6.2.1 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.
- 6.2.2 All relevant states of expression are presented in the characteristic.
- 6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".
- 6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudoqualitative) 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

	Englisł	ו	françai	is	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1 2	3	4	5	6	7			
	Name chara in Eng	cteristics	Nom carac frança	tère en	Name des Merkmals auf Deutsch	Nombre del carácter en español		
	states expres		types	d'expression	Ausprägungsstufen	tipos de expresión		

1 Characteristic number

2	(*)	Asterisked characteristic	- see Chapter 6.1.2
3	Type of expression QL QN PQ	Qualitative characteristic Quantitative characteristic Pseudo-qualitative characteristic	 see Chapter 6.3 see Chapter 6.3 see Chapter 6.3
4	Method of observation (and type MG, MS, VG, VS	e of plot, if applicable)	- see Chapter 4.1.5
5	(+)	See Explanations on the Table of	of Characteristics in Chapter 8.2
6	(a)-(c)	See Explanations on the Table of	of Characteristics in Chapter 8.1

7 Growth stage key See Explanations on the Table of Characteristics in Chapter 8

7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	QL	VG	(+)	(a), (b), (c)	10	1		
	Hypo antho color	ocyanin						
	abser	nt					Zhonglv1 C3408	1
	prese	nt					Dayingelv 925 C5786	9
2.	QN	MG			20	·	i	
	Time	of flowering						
	very e	early						1
	early						Baolv 942 C5636	3
	mediu	ım					Zhonglv1 C3408	5
	late						Lvdou C2969	7
	very l	ate						9
3.	PQ	VG A			30	-		
	Stem	: color						
	green							1
	green	ish purple						2
	purple	9						3
4.	QN	VG A	(+)		30			- 1
	Stem	: fuzz						
	abser	nt						1
	few							2
	many							3
5.	QN	VG B	(+)		30			
	Leaf:	type						
	three	leaflets						1
	many	leaflets						2
6.	PQ	VG	(+)		30		L	
	Leaf:	shape of leaflet						
	split le	eaf shape						
	narro							1
	mediu	um oval						2
	broad	oval						3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
7.	QN	VG B		30	<u> </u>		
	Leaf: i green	intensity of color	:				
	light						1
	mediu	m					2
	dark						3
8.	QL	VG B		30			
	Leaf: a colora of leaf	anthocyanin ation at the base flets					
	absen	t				Zhonglv1 C3408	1
	preser	nt				Dayingelv 925 C5786	9
9.	QN	VG B		30	•	- I	
	Petiol antho colora	e: intensity of cyanin ttion					
		t or very weak					1
	weak						2
	strong						3
10.	PQ	VG		30			
	Flowe coroll	rs: color of a					
	light ye	ellow					1
	mediu	m yellow					2
	yellow	with purple					3
11.	PQ	VG		30			
	Flowe	r: keel flap color					
	absen	t					1
	preser	nt					9
12.	PQ	VG		30	I		
	Flowe colore	rs: sepals ed					
	absen	t					1
	preser	nt					9

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
13.	QN	MG			40	1		
	Matu	re period		•				
	very e	early						1
	early						Baolv 942 C5636	3
	mediu	Jm					Zhonglv1 C3408	5
	late						Lvdou C2969	7
	very l	ate						9
14.	PQ	VG	(+)		40-50			
	Plant	: habit		•				
	uprigh	 nt					Zhonglv1 C3408	1
		sprawl					Yinggelvdou C1547	2
	spraw						Lanlvdou C4157	3
15.	QN	MS			40-50			<u> </u>
	Pod:	length						
	very s	short					Gaaoyangxiaolvdou C0229	1
	short						Dayanglvdou C0385	3
	mediu	Jm					Zhonglv1 C3408	5
	tall						Quyangxiaolvdou C1819	7
	very t	all					Hulvdou C1431	9
16.	QN	MS			40-50			
	Plant branc	: number of ches						
	few							1
	mediu	Jm						2
	many							3
17.	QN	VG	(+)		40-50			
		: branches at es to main stem						
	small							1
	mediu	JM						2
	large							3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
18.	QN	MS		50			
	Plant	number of pod					
	very fe	ew				Dayanglvdou C0385	1
	few					Gaoyangxiaolvdou	3
	mediu					Youlvdou C3247	5
	many					Zhonglv1 C3408	7
	very n	nany				Hulvdou C1431	9
19.	QN	VG		50			
	Plant:	pod-shattering					
	absen	t or very weak					1
	weak						2
	strong						3
20.	QN	MS		40-50			
	Stem: sectio	number of					
	few						1
	mediu	ım					2
	many						3
21.	PQ	MS C		50			
	Pod:	length					
	short					Hulvdou C2185	1
	mediu	ım				Zhonglv1 C3408	2
	long					Dayingelv 925 C5786	3
22.	QN	MSIC		50			
	Pod:	number of seed					
	few					Fuxinlvdou C3455	1
	mediu	ım				Zhonglv1 C3408	2
	many					Dengxianlvdou C2737	3
23.	PQ	VGIC	(+)	50	L	L	
	Plant	pod-shattering					
	straigl	nt					1
	falcifo						2
	claw						3

		English		français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24.	PQ	VG C			40	1		
	Stem: sectio	number of						
	round						Dengxianlvdou C2737	1
	oblate)					Zhonglv1 C3408	2
25.	PQ	VG C	(+)		50	·		
-	Pod: o	color						
	yellow	ish white					Hulvdou C2185	1
	brown						Dengxianlvdou C2737	2
	black						Zhonglv1 C3408	3
26.	PQ	VG C			50		1	
	Pod: o	color of hairiness						
	grey							1
	brown							2
27.	QN	MG			50	•		
	Seed:	weight						
	small							1
	mediu	ım						3
	large							5
28.	PQ	VG	(+)		50			
	Seed:	shape						
	sphere	e					Pinlvyouzi 88-49 C5234	1
	cylind	rical					Dayingelv 925 C5786	2
	physic	al					Zhonglv1 C3408	3
29.	PQ	VG	(+)		50	·		
	Seed: testa	ground color of						
	green						Zhonglv1 C3408	1
	yellow						Suhuang 1 C6402	2
	blue						Lanlvdou C4157	3
	brown						Hulvdou C2185	4
	black		1				Heizhengzhu C5503	5

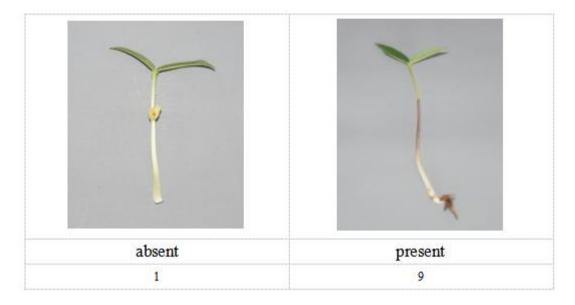
		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
30.	QN	VG		50			•
	seedo Seed: green light mediu						1
31.	dark QL	VG		50			3
51.	Seed:	seed coat luster		50			
	absen	t					1
	prese	nt					9

- 8. Explanations on the Table of Characteristics
- 8.1 Explanations covering several characteristics

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

- (a) Observe the middle and upper parts of the main stem.
- (b) Measured lateral leaflets of compound leaves at segments 8 to 10 in the middle and upper parts of the plant.
- (c) Measure the pod in the upper part of the plant.
- 8.2 Explanations for individual characteristics

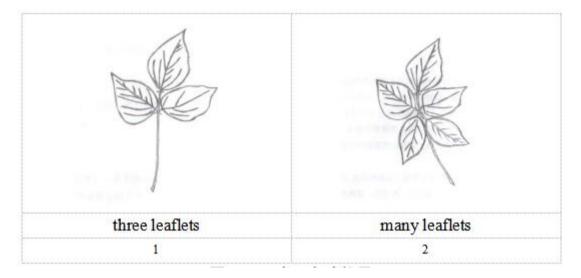
Ad. 1: Hypocotyl: anthocyanin coloration



Ad. 4: Stem: fuzz

	55	TTTE.
	5	- AL
	37	322
	1 ~ 1	Povel
absent	few	many
1	2	3

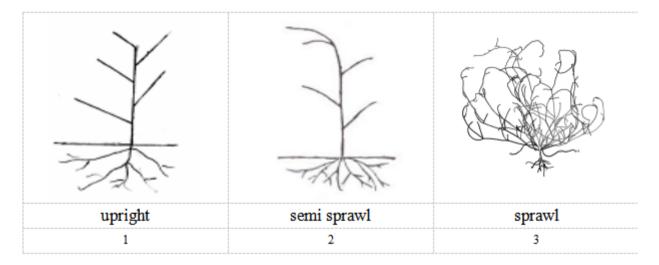
Ad. 5: Leaf: type



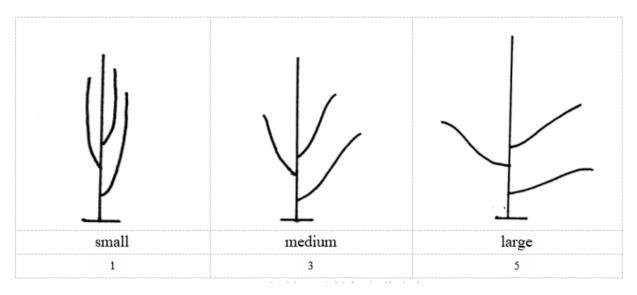
Ad. 6: Leaf: shape of leaflet

			A A
narrow oval	medium oval	broad oval	Split leaf shape
1	2	3	4

Ad. 14: Plant: habit



Ad. 17: Plant: branches at angles to main stem



Ad. 23: Plant: pod-shattering



Ad. 25: Pod: color

yellowish white	brown	black
1	2	3

Ad. 28: Seed: shape

0	00	0
sphere	cylindrical	physical
1	2	3

Ad. 29: Seed: ground color of testa

	8	8000 000 000 000 000 000 000 000 000 00	-	
green	yellow	blue	brown	
1	2	3	4	

8.3 Decimal Code for the Growth Stages of Vigna radiate

Code	Growth stages	General Description
10	Seedling stage	Opposite simple leaves fully spread
20	Initial flowering period	Ten percent of the plants in the plot have their first flower
30	Full-bloom stage	Seventy percent of the plants in the plot are flowering
40	Maturity stage	In the cell, 50% of the pods are mature, the pods are mature and the seeds are hard
50	Ull ripe stage	More than 90% of the pods in the cell were mature, the pods showed mature color, and the beans hardened

9. <u>Literature</u>

2013: Guidelines for the Conduct of Test for Distinctness, Uniformity and Stability of Mungbean (Vigna radiata L. Wilczek). Chinese standard, in Chinese.

Lixia Wang, et al. 2014: Adaptability and Phenotypic Variation of Agronomic Traits in Mungbean Core Collection under Different Environments in China. Beijing, CN.

10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIRE				Page {x} of {y}	Reference Number:
					Application date: (not to be filled in by the applicant)
				CHNICAL QUESTIONNA	IRE for plant breeders' rights
1.	Subjec	t of the Technical Question	nnai	re	
	1.1	Botanical name	Vig	gna radiata (L.) R. Wilcze	эk
	1.2	Common name	Μι	ung Bean	
2.	Applica	ant			
	Name Addres	s			
	Teleph	one No.			
	Fax No).			
	E-mail	address			
	Breede applica	er (if different from ant)			
3.	Propos	ed denomination and bree	der	's reference	
	Propos (if avail	ed denomination			
	Breede	er's reference			

TECHNICAL Q	UESTIONNAIRE	Page {x} of {y}	Reference Number:
#4. Informa	tion on the breeding scheme	and propagation of the var	riety
4.1	Breeding scheme		
Variety	resulting from:		
4.1.1	Crossing		
(a)	controlled cross		[]
	(please state parent variety)		
	() x	()
	female parent		male parent
(b)	partially known cross		[]
	(please state known parent	variety(ies))	
	() x	()
	female parent		male parent
(c)	unknown cross		[]
4.1.2	Mutation (please state parent variety)		[]
4.1.3	Discovery and development (please state where and whe		[] veloped)
4.1.4	Other (Please provide details)		[]

TECHNICAL C	QUESTIONNAIRE	Page {x} of {y}	Reference Number	r:
4.2 4.2.1	Method of propagating the Other (Please provide details)	variety		[]

ECHN	NICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
	Characteristics of the variety to be inc characteristic in Test Guidelines; ple			ling
	Characteristics		Example Varieties	Note
5.1 (1)	Hypocotyl: anthocyanin coloration			
	absent		Zhonglv1 C3408	1 [
	present		Dayingelv 925 C5786	9 [
5.2 (6)	Leaf: shape of leaflet			
	split leaf shape			
	narrow oval			1 [
	medium oval			2 [
	broad oval			3 [
5.3 (8)	Leaf: anthocyanin coloration at the b	base of leaflets		
.,	absent		Zhonglv1 C3408	1 [
	present		Dayingelv 925 C5786	9 [
5.4 (9)	Petiole: intensity of anthocyanin colo	oration		
	absent or very weak			1 [
	weak			2 [
	strong			3 [
5.5 (10)	Flowers: color of corolla			
	light yellow			1 [
	medium yellow			2 [
	yellow with purple			3 [
5.6 (13)	Mature period			
-	very early			1 [
	early		Baolv 942 C5636	3 [
	medium		Zhonglv1 C3408	5 [
	late		Lvdou C2969	7 [
	very late			9 [

	Characteristics	Example Varieties	Note
5.7 (14)	Plant: habit		
	upright	Zhonglv1 C3408	1[]
	semi sprawl	Yinggelvdou C1547	2[]
	sprawl	Lanlvdou C4157	3[]
5.8 (15)	Pod: length		
	very short	Gaaoyangxiaolvdou C0229	1[]
	short	Dayanglvdou C0385	3[]
	medium	Zhonglv1 C3408	5[]
	tall	Quyangxiaolvdou C1819	7[]
	very tall	Hulvdou C1431	9[]
5.9 (23)	Plant: pod-shattering		
	straight		1[]
	falciform		2[]
	claw		3[]
5.10 (25)	Pod: color		
	yellowish white	Hulvdou C2185	1[]
	brown	Dengxianlvdou C2737	2[]
	black	Zhonglv1 C3408	3[]
5.11 (27)	Seed: weight		
. ,	small		1[]
	medium		3[]
	large		5[]
5.12 (29)	Seed: ground color of testa		
. ,	green	Zhonglv1 C3408	1[]
	yellow	Suhuang 1 C6402	2[]
	blue	Lanlvdou C4157	3[]
	brown	Hulvdou C2185	4[]
	black	Heizhengzhu C5503	5[]
5.13 (31)	Seed: seed coat luster		
	absent		1[]
	present		9[]

TECHNICAL QUESTION	NAIRE	Page {x} of	{y}	Reference Nu	ımber:	
6. Similar varieties and differences from these varieties						
the variety (or varieties) wh	Please use the following table and box for comments 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 its examination of distinctness in a more efficient way.					
Denomination(s) of variety(ies) similar to your candidate variety	Characteristic your candidate from the simila	variety differs	the characte	e expression of ristic(s) for the variety(ies)	Describe the expression of the characteristic(s) for your candidate variety	
Example						
Comments:						

TECH	NICAL	QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<i>#</i> 7.	Additio	onal information which may h	nelp in the examination of	the variety
7.1	In add help to	ition to the information provion distinguish the variety?	ded in sections 5 and 6, a	re there any additional characteristics which may
	Yes	[]	No	[]
	(If yes	, please provide details)		
7.2	Are th	nere any special conditions for	or growing the variety or c	conducting the examination?
	Yes	[]	No	[]
	(If yes	, please provide details)		
7.3	Other	information		

TEC	HNICA	L QUESTIONNAIRE	e Pa	age {x} of {y	'}	Reference	Number:		
r									
8.	3. Authorization for release								
	(a)	(a) Does the variety require prior authorization for release under legislation concerning the protection 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. In	formati	on on plant material to	be examined	or submitted	for examin	nation			
9.2 char has	s and stocks, The pl acterist underg	e expression of a chara disease, chemical trea scions taken from diffe ant material should n tics of the variety, unles one such treatment, fu	atment (e.g. g rent growth pl ot have und ss the compe Il details of th	growth retard nases of a tr ergone any tent authorit e treatment	dants or p ee, etc. treatment es allow o must be gi	esticides), ef which woul r request suc ven. In this re	fects of tissu d affect the h treatment. I espect, please	e culture, different expression of the f the plant materia	
the	(a)	your knowledge, if the p Microorganisms				en subjected	to: Yes []	No []	
	(b)	Chemical treatme					Yes []	No []	
	(c)	Tissue culture					Yes []	No []	
	(d)	Other factors					Yes []	No []	
	Please provide details for where you have indicated "yes".								
10.	l he	I hereby declare that, to the best of my knowledge, the information provided in this form is correct:							
	Ар	plicant's name							
	Sig	gnature				Date			

[End of document]