

UPOV

TG/SESAME(proj.5)

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

SESAME *

UPOV Code: SESAM_IND

Sesamum indicum L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from Israel and Republic of Korea**to be considered by the**Technical Working Party for Agricultural Crops
at its thirty-ninth session, to be held in Osijek, Croatia, from May 24 to 28, 2010*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Sesamum indicum</i> L.	Sesame	Sésame	Sesam	Sésamo

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.

* 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 UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Sesamum indicum* L.

2. Material Required

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:

30 g

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. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be two independent growing cycles.

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*

Each test should be designed to result in a total of at least 50 plants, which should be divided between at least 2 replicates.

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.

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 / Parts of Plants to be Examined

Unless otherwise indicated, all observations for the purposes of distinctness should be made on 20 plants or parts taken from each of 20 plants, 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 second column of 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 For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 50 plants, 2 off-types are allowed.

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 tested further examined by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

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:

- (a) Plant: growth type (characteristic 1)
- (b) Flowering stem: number of flowers per leaf axil (characteristic 15)
- (c) Capsule: number of carpels (characteristic 21)
- (d) Seed coat: color (characteristic 27)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction 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 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

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 pseudo-qualitative) 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*

- (*) Asterisked characteristic – see Chapter 6.1.2
- QL: Qualitative characteristic – see Chapter 6.3
- QN: Quantitative characteristic – see Chapter 6.3
- PQ: Pseudo-qualitative characteristic – see Chapter 6.3

MG, MS, VG, VS – see Chapter 4.1.5

(a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
1. (*) (+)	VG Plant: growth type	COMMENTS CONCERNING THE TABLE OF CHARACTERISTICS CAN BE FOUND IN THE ANNEX					
QL	(a) indeterminate				Yangbeak	1	
	determinate					2	
2. (+) (*)	VG Plant: branching						
QN	(a) absent				Jinju	1	
	few				Pyungan	3	
	many				Ansan	5	
3. (+)	VG Plant: position of branches						
PQ	(a) base only					1	
	basal and upper half					2	
	upper half only					3	
4. (*)	MS Stem: number of nodes to first flower						
VG/ MG	(a) few				Yunhuck	3	
	medium				Jinju	5	
	many				Whangbaek	7	
5.	MS/ VS Stem: pubescence						
VG	(a) weak				Jinki	3	
	medium				Poongnam	5	
	strong				Sunbaek	7	

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6.	MS/	Stem: length				
(*)	VG					
	(c)	short				3
		medium				5
		long				7
7.	MS/	Leaf blade: length				
	VG					
	(b)	short			Soonhuck	3
		medium			Danbaek	5
		long			Osan	7
8.	MS/	Leaf blade: width				
	VG					
	(b)	narrow			Soonhuck	3
		medium			Danbaek	5
		broad			Osan	7
9.	MS/	Leaf blade:				
	VG	length/width ratio				
	(b)	small			Soonhuck	3
		medium			Danbaek	5
		large			Osan	7
10	VG	Leaf blade: degree				
(+)		of lobing				
QN	(b)	weak			Huksun	3
		medium			Nambaek	5
		strong			Milsung	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
11. VG	Leaf blade: intensity of green color					
QN	(b) light				Osan	3
	medium				Yangheuk	5
	dark				Milsung	7
12. VG	Leaf blade: venations on lower side					
QL	(b) absent					1
	present					9
13 MG	Petiole: length					
QN	short				Kanghuck	3
	(b) medium				Namsan	5
	long				Poongsan	7
14 VG	Petiole: anthocyanin coloration					
QL	(b) absent or weak				Danbaek	1
	moderate					2
	strong				Dasak	3
15. VG (*)	Flowering stem: number of flowers per leaf axil					
QL	(a) one				Ansan	1
	more than one				Yangbeak	2
16. VG	Flowering stem: nectaries					
QL	(b) absent					1
	present					9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17 (*)	VG	Flower: intensity of pink color at outer side of corolla				
QN	(a)	light			Kanghuck	1
		medium			Yanghuck	2
		dark			Hucksun	3
18. (+)	VG	Flower: intensity of pink color at inner side of lower lip				
		light			Naman	1
		medium			Dasak	2
		dark			Hucksun	3
19.	VG	Flower: pubescence of corolla				
QN		weak			Mihuck	1
		medium			Kanghuck	3
		strong			Kyeonghuck	5
20. (+)	VG	Flower: 'V' mark of inner side of corolla				
QL		absent				1
		present			Yangbaek	9
21. (*) (+)	VG	Capsule: number of carpels				
QL	(c)	two			Ansan	1
		more than two				2
22. (+)	MG	Capsule: length				
QN	(c)	short				3
		medium				5
		long				7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
23.	MG	Capsule: maximum width					
(+)							
QN	(c)	narrow				3	
		medium				5	
		broad				7	
24.	VG	Capsule: pubescence					
QN	(c)	weak			Mihuck	1	
		medium			Poongan	3	
		strong			Whangbaek	5	
25.	VG	Capsule: color					
QL	(c)	yellow			Whangbeak	1	
		purple				2	
		green			Yangbeak	3	
26.	VG	Capsule: dehiscence at ripening					
(*)							
QL	(c)	weak				1	
		medium				2	
		strong			Yangbeak	2	

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27. VG	Seed coat: color					
(*)						
QL	(c) white				Yangbeak	1
	yellow				Mankum	2
	grey					3
	light grey					
	medium grey					
	brown				Yuyoung	4
	light brown					
	medium brown					
	black				Jingi	5
28. MG	Seed coat: texture					
(+)						
QL	(c) smooth				Kopoom	1
	rough				Kangbaek	2
29. MG	Time of beginning of flowering					
(+)						
QN	(a) early				Jingi	3
	medium				Yangbaek	5
	late				Namda	7
30. VG	Time of maturity					
(+)						
QN	(c) early				Manhuck	3
	medium				Kangbaek	5
	late				Namda	7

8. Explanations on the Table of Characteristics

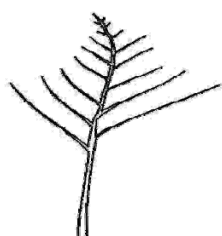
8.1 *Explanations covering several characteristics*

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

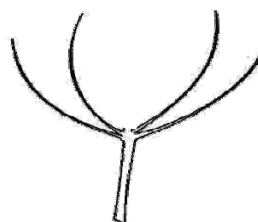
- (a) characteristics should be measured at flowering stage.
- (b) characteristics related to leaf should be measured at flowering stage on the lower part of plant.
- (c) characteristics related to capsule and seed should be measured at fully matured stage on the lower part of plant.

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: growth type



1
indeterminate



2
determinate

Ad. 2: Plant : branching

Few means one or two branching per plant, and many means more than three branching per plant.

Ad. 3: Plant: position of branches

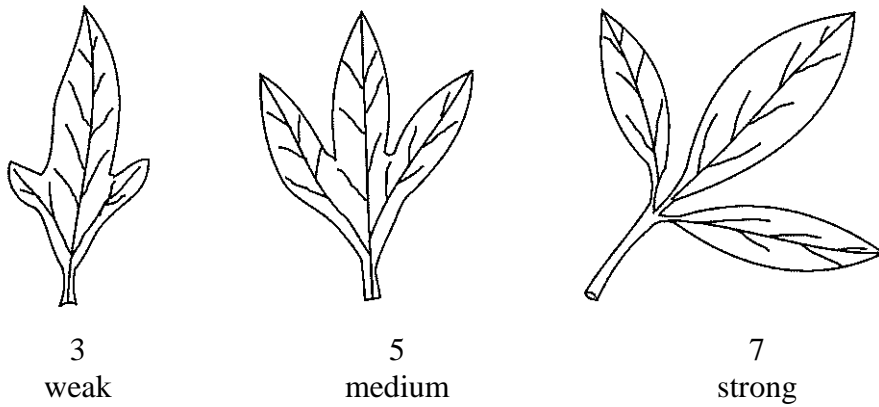


1
base only



3
upper half only

Ad. 10: Leaf blade: degree of lobing



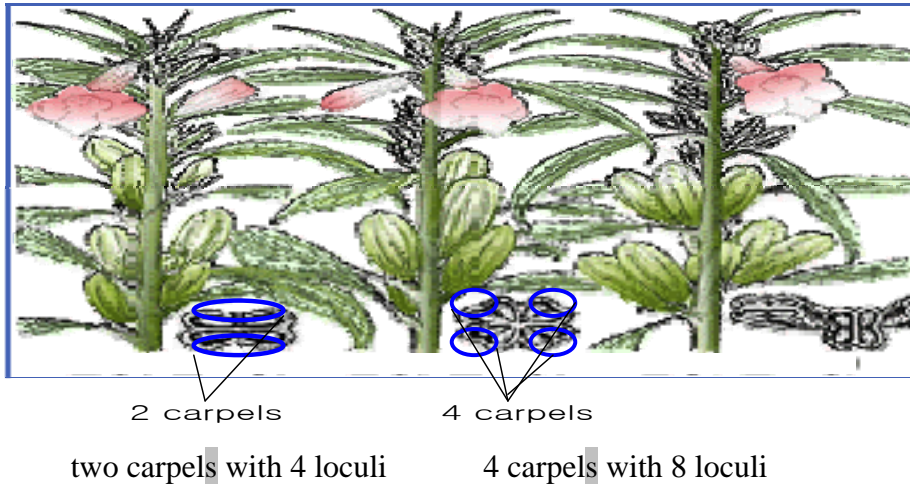
Ad. 18: Flower: intensity of pink color at inner side of lower lip



Ad. 20: Flower: 'V' mark of inner side of corolla



Ad. 21: Capsule: number of carpels



Ad. 28: Seed coat: texture



Ad. 29: Time of beginning of flowering

The time of one flower in one plant at plot.

Ad. 30: Time of maturity

The time of 50% plant dehiscence of capsule on the main stem in one plot.

9. Literature

IPGRI, 2004: Descriptors for Sesame. IPGRI

RDA, 2006: Descriptors and guideline for management of Sesame. Korea

KSVS, 2002: Test guideline for Sesame. Korea

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<input type="text" value="Sesamum indicum L."/>	
1.2 Common name	<input type="text" value="Sesame"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross []
(please state parent varieties)

(.....)	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 when discovered and how developed)

--

4.1.4 Other []
(please provide details)”

--

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

- (a) Self-pollination []
- (b) Cross-pollination []
 - (i) population []
 - (ii) synthetic variety []
- (c) Hybrid []
- (d) Other []
(please provide details)

4.2.2 Vegetatively propagated varieties

- (a) cuttings []
- (b) *in vitro* propagation []
- (c) other (state method) []

- 4.2.3 Other []
(please provide details)

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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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	Example Varieties	Note
5.1 (1) Plant: growth type		
indeterminate	Yangbeak	1 []
determinate		2 []
5.2 (15) Flowering stem: number of flowers per leaf axil		
one	Ansan	1 []
more than one	Yangbeak	2 []
5.3 (21) Capsule: number of carpels		
two	Ansan	1 []
more than two		2 []
5.4 (27) Seed coat: color		
white	Yangbeak	1 []
yellow	Mankum	2 []
grey		3 []
light grey		
medium grey		
brown	Yuyoung	4 []
light brown		
medium brown		
black	Jingi	5 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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6. Similar varieties and differences from these varieties

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(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
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<i>Example</i>	<i>Plant: growth type</i>	<i>indeterminate</i>	<i>determinate</i>
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Comments:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 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 the plant material has undergone such treatment, full details of the treatment 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) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (b) Tissue culture | Yes [] | No [] |
| (c) Other factors | Yes [] | No [] |

Please provide details for where you have indicated “yes”.

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date

[Annex follows]

Comments for TG of Sesame from China and Israel

I. Amendment Comments

Char. 2:Plant: branching : (*) QL, VG, absent (1), present (9) (CN)
weak (3), strong(5) (IL)

Char. 3:Plant : position of branches: basal only (1) (IL)

Char. 4:Stem: number of nodes to first flower : (*) QN, MS (CN)

Char. 5:Stem: pubescence : QN, VG (CN)

Char. 6: length : (*); QN, MS (CN)

Char. 7、 8、 9: QN, MS (CN)

Char. 12. Leaf blade: venations on lower side: non conspicuous(1), conspicuous(9) (IL)-

Char. 13:Petiole: length : QN, MS (CN)-

Char. 14:Petiole: anthocyanin coloration : absent (1), present (9) (CN)

Char. 17:Flower: intensity of pink color at outer side of corolla : (*) PQ, VG. absent(1), light(2), medium(3), dark(4) (CN)

Char. 18:Flower: intensity of pink color at inner side of lower lip : QN, VG, absent or very light(1), light(3), medium(5), dark(7), very dark(9) (CN)-

Char. 19:Flower: pubescence of corolla: weak(1), medium(2), strong(3) (CN)--

Char. 20:Flower: 'V' mark of inner side of corolla: PQ, VG (CN)-

Char. 22:Capsule: length: (*) QN, MS (CN)

Char. 23:Capsule: maximum width: QN, MS (CN)

Char. 24:Capsule: pubescence: weak(1), medium(2), strong(3) (CN)

Char. 25:Capsule: color at ripening: (*) QL, VG, Yellow(1), Yellow green (2), Green (3), Green with purple spots(4) (CN)

 Capsule: color : purple : anthocynin coloration: absent(1) present(9) (IL)

Char. 26:Capsule: dehiscence at ripening: (*), dehiscence (1), indehiscence (9) (CN)
: difficult to find degree (IL)

Char. 27:Seed coat: color: (*), white(1), grey (2), yellow (3), brown(4), black (5) (CN)

Char. 28:MG Seed coat: texture: (*) QL, VG (CN)

Char. 29:MG Time of beginning of flowering: (*) QN, VG (CN)

II. Propose the following additional Characteristics (CN)

Add. Char. 1:Seed: shape: (*) QL, VG, Oval with convex side(1), Oval with concave side(2), Elongated(3)

Add. Characteristic 2:1000-seed weight: QN, MG, light(3), medium(5), heavy(7)

[End of Annex and of document]