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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA



BIRD'S FOOT TREFOIL; BIG TREFOIL; BROAD LEAF TREFOIL; NARROW LEAF TREFOIL; LOTUS SUBBIFLORUS

UPOV code: LOTUS_COR; LOTUS_PED; LOTUS_ULI; LOTUS_GLA; LOTUS_SUB

Lotus corniculatus L.; Lotus pedunculatus Cav.; Lotus uliginosus Schkuhr; Lotus tenuis Waldst. et Kit. ex Willd.; Lotus subbiflorus Lag.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by experts from Germany and Uruguay

to be considered by the Technical Working Party for Agricultural Crops at its thirty-sixth session, to be held in Budapest, Hungary, from May 28 to June 1, 2007

Alternative Names:*

| Botanical name | English | French | German | Spanish |
|--|---|-------------------------------------|-------------------------------------|---|
| Lotus corniculatus L. | Bird's foot trefoil | Cornette, Cube, Lotier cornicule | Hornschotenklee, Hornklee | Cuernecillo, Cuernecillo del campo Lotus, Loto de los prados |
| Lotus pedunculatus Cav. | Big trefoil | | | Lotus pedunculatus |
| Lotus uliginosus Schkuhr | Big trefoil, Broad leaf trefoil, Greater bird's-foot trefoil Major bird's foot trefoil | Lotier velu, Lotier des marais | Sumpfschotenklee, Sumpf-Hornklee | Loto de los pantanos |
| Lotus tenuis Waldst. et Kit. ex Willd., Lotus glaber Mill. | Narrow leaf trefoil, Slender trefoil | | Schmalblättriger Hornklee | Lotus tenuis |
| Lotus subbiflorus Lag., Lotus suaveolens Pers. | | | | Lotus subbiflorus |

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. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Lotus corniculatus* L., *Lotus pedunculatus* Cav., *Lotus uliginosus* Schkuhr, *Lotus tenuis* Waldst. et Kit. ex Willd. and *Lotus subbiflorus* Lag..

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:

0.5 kg

- 2.4 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.
- 2.5 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.
- 2.6 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
- 3.3.1 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.

3.3.2 The recommended method of observing the characteristic is indicated by the following key in the second column of the Table 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

3.3.3 The recommended type of plot in which to observe the characteristic is indicated by the following key in the second column of the Table of Characteristics:

A: spaced plant

B: row plot

C: special test

3.4 Test Design

3.4.1 Each test should be designed to result in a total of at least 60 spaced plants and 10 meters of row plot.

<u>Plots with spaced plants (A)</u>: Each test should consist of 60 single spaced plants per variety arranged in 3, 4, 5 or 6 replicates, i.e. plots of 20, 15, 12 or 10 plants.

Row plots (B): Each test which includes row plots should consist of at least 10 meters of row arranged in two replicates, each of 5 meters. The density of the seed should be such that about 150 plants per meter can be expected.

- 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 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations on single plants should be made on 60 plants or parts taken from each of 60 plants.

3.6 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.

4.2 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 The assessment of uniformity should be according to the recommendations for cross-pollinated 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 tested, either by growing a further generation, or by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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:
 - (a) Ploidy (characteristic 1)
 - (b) Plant: time of beginning of flowering (characteristic 10)
 - (c) Leaf: width of central leaflet (characteristic 14)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.
- 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

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.

6.3 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
- 6.4.1 Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.
- 6.4.2 The name of each example variety is following by an abbreviation of its species:

 $Lc = Lotus \ corniculatus \ L.$

Lp = Lotus pedunculatus Cav. / Lotus uliginosus Schkuhr

Lt = Lotus tenuis Waldst et Kit. ex Willd (syn. Lotus glaber Mill.)

Ls = Lotus subbiflorus Lag. (syn. Lotus suaveolens Pers.)

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
- (a)-(b) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2
- MG: single measurement of a group of plants or parts of plants see Chapter 3.3.3
- MS: measurement of a number of individual plants or parts of plants see Chapter 3.3.3
- VG: visual assessment by a single observation of a group of plants or parts of plants see Chapter 3.3.3
- VS: visual assessment by observation of individual plants or parts of plants see Chapter 3.3.3

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

| Char. No. | Method of Examination | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|--------------|-----------------------|--|---|--|---|---|---------------|
| 1. (*) | C | Ploidy | Ploïdie | Ploidie | Ploidía | | |
| QL | | diploid | diploïde | diploid | diploide | Sunrise (Lp), Larrañaga (Lt) | 2 |
| | | tetraploid | tétraploïde | tetraploid | tetraploide | Grasslands Maku (Lp), San Gabriel (Lc) | 4 |
| 2. | C MS | Cotyledon: width (when fully expanded) | Cotylédon: largeur (à la fin de l'élongation) | Keimblatt:Breite (wenn voll ausgebildet) | Cotiledón: anchura (cuando está completamente expandido) | | |
| QN | | narrow | étroit | schmal | estrecho | Larrañaga (Lt) | 3 |
| | | medium | moyen | mittel | medio | San Gabriel (Lc) | 5 |
| | | broad | large | breit | ancho | | 7 |
| 3. (+) | A VS | Leaf: density of hairs | Feuille: densité de la pilosité | Blatt: Dichte der Behaarung | Hoja: densidad de la vellosidad | | |
| QN | (a) | absent or very sparse | nulle ou très faible | fehlend oder sehr locker | ausente o muy laxa | San Gabriel (Lc) | 1 |
| | | sparse | faible | locker | laxa | Sunrise (Lp) | 3 |
| | | medium | moyenne | mittel | media | Grassland Maku (Lp) | 5 |
| | | dense | dense | dicht | densa | El Rincón (Ls) | 7 |
| | | very dense | très dense | sehr dicht | muy densa | | 9 |
| 4. | A B VG | Leaf: intensity of green color | Feuille: intensité de la couleur verte | Blatt: Intensität der Grünfärbung | Hoja: intensidad del color verde | | |
| QN | (a) | light | claire | hell | claro | | 3 |
| | | medium | moyenne | mittel | medio | San Gabriel (Lc) | 5 |
| | | dark | foncée | dunkel | obscuro | Matrero (Lp) | 7 |

Method of Examination examination Example Varieties/ Char. français Exemples/ deutsch español Note/ No. Beispielssorten/ Nota Variedades ejemplo Stengel: Dichte der Tallo: densidad de la 5. Stem: density of Tige: densité de la A VS pilosité vellosidad hairs **Behaarung** (+)ON absent or very sparse nulle ou très faible fehlend oder sehr ausente o muy laxa San Gabriel (Lc) 1 locker faible laxa 3 sparse locker Sunrise (Lp) 5 medium mittel media Grassland Maku (Lp) moyenne dense dicht densa El Rincón (Ls) 7 dense very dense très dense sehr dicht muy densa 9 Plant: growth habit Plante: port Pflanze: Wuchs-6. \mathbf{A} Planta: porte VG (*) form 1 QN dressé aufrecht San Gabriel (Lc) (a) erect erecto semi-erect demi-dressé halbaufrecht semi-erecto INIA Draco (Lc) 3 medium mittel medio Larrañaga (Lt) 5 moyen 7 semi-rampant halbliegend semipostrado semi-prostrate Angostura (Lt) prostrate rampant liegend postrado El Rincón (Ls) 9 7. Plant: width Pflanze: Breite Plante: largeur Planta: anchura A MS narrow étroite schmal estrecha Estanzuela Ganador 3 ON (a) (Lc) 5 medium moyenne mittel media Cruz del Sur (Lc) broad breit ancha Angostura Lt) 7 large 8. Plant: natural Plante: hauteur Pflanze: natürliche Planta: altura MS height at beginning naturelle au début Höhe zum natural al comienzo of flowering de la floraison Blühbeginn de la floración muy baja QN very short très basse sehr niedrig 1 3 short niedrig baja basse medium moyenne mittel media 5 tall hoch 7 haute alta 9 very tall très haute sehr hoch muy alta

| Char. No. | Method of Examination | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|--------------|-----------------------|---|--|---|--|---|---------------|
| 9. (+) | A B VG | Plant: vigor of growth in aftermath | Plante: vigueur | Pflanze: Wuchsstärke im Nachwuchs | Planta: vigor | | |
| QN | | absent or very weak | nulle ou très faible | fehlend oder sehr gering | ausente o muy débil | INIA Draco (Lc) | 1 |
| | | weak | faible | gering | débil | Rodeo Lc) | 3 |
| | | medium | moyenne | mittel | medio | Empire (Lc) | 5 |
| | | strong | forte | stark | fuerte | Leo (Lc) | 7 |
| 10. (*) | A MS | Plant: time of beginning of flowering(when 3 inflorescences show color in the floret) | Plante: époque de début de floraison (quand 3 inflorescences présentent une couleur dans le fleuron) | Pflanze: Zeitpunkt des Blühbeginns(wenn 3 Blütenstände die Blütenfarbe anzeigen) | Planta: época de comienzo de la floración (cuando 3 inflorescencias presentan color en la flor) | | |
| QN | | very early | très précoce | sehr früh | muy temprana | Agrosan Trueno (Lc) | 1 |
| | | early | précoce | früh | temprana | San Gabriel (Lc) | 3 |
| | | medium | moyenne | mittel | media | Estanzuela Ganador (Lc) | 5 |
| | | late | tardive | spät | tarde | Rodeo (Lc) | 7 |
| | | very late | très tardive | sehr spät | muy tarde | Leo (Lc) | 9 |
| 11. | A VS | Flower: bud color | Bourgeon floral: couleur | <mark>Blütenknospe:</mark> Farbe | Capullo floral: color | Characteristic very difficult to assess; subgroup proposed to delete. | |
| PQ | | yellow | jaune | gelb | amarillo | Estanzuela Ganador (Lc) | 1 |
| | | orange | orange | orange | anaranjado | Agrosan Trueno (Lc) | 2 |
| | | red | rouge | rot | <mark>rojo</mark> | Leo (Lc) | 3 |
| 12. | A VS | Flower corolla: color | Fleur: couleur de la corolle | Blüte: Farbe der Blütenkrone | Flor: color de la corola | | |
| PQ | | yellow | jaune | gelb | amarillo | Estanzuela Ganador (Lc) | 1 |
| | | yellow and orange | | gelb und orange | | | 2 |
| | | orange | orange | orange | anaranjado | | 3 |

| Char. No. | Method of Examination | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|--------------|-----------------------|--|--|--|---|---|---------------|
| 13. | A MS | Leaf: length of central leaflet | Feuille: longueur de la foliole médiane | Blatt: Länge des mittleren Fiederblatts | Hoja: longitud del folíolo central | | |
| QN | (b) | short | courte | kurz | corta | El Rincón (Ls) | 3 |
| | | medium | moyenne | mittel | media | Estanzuela Ganador (Lc) | 5 |
| | | long | longue | lang | larga | Grassland Maku (Lp) | 7 |
| 14. (*) | A MS | Leaf: width of central leaflet | Feuille: largeur de la foliole médiane | Blatt: Breite des mittleren Fieder- blatts | Hoja: anchura del folíolo central | | |
| QN | (b) | narrow | étroite | schmal | estrecha | Matrero (Lt) | 3 |
| | | medium | moyenne | mittel | media | San Gabriel (Lc) | 5 |
| | | broad | large | breit | ancha | Grasslands Maku (Lp) | 7 |
| 15. | A MS | Stem: length of longest stem (when fully extended) | Tige: longueur de la tige la plus longue (à la fin de l'élongation) | | Tallo: longitud del tallo más largo (cuando está completamente expandido) | | |
| QN | | very short | très courte | sehr kurz | muy corto | | 1 |
| | | short | courte | kurz | corto | | 3 |
| | | medium | moyenne | mittel | medio | | 5 |
| | | long | longue | lang | largo | | 7 |
| | | very long | très longue | sehr lang | muy largo | | 9 |
| 16. | A B VG | Rhizomes | Rhizomes | Rhizome | Rizomas | DE: No experience. Do we need this char.? Intermediate state? | |
| QL | <u>(+)</u> | absent | absents | fehlend | ausentes | San Gabriel (Lc) | 1 |
| | | present | présents | vorhanden | presentes | Grasslands Maku (Lp) | 9 |

| Char. No. | Method of Examination | English | français | deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
|--------------|-----------------------|-----------------------------|----------------------------------|--------------------------------|-----------------------------------|---|---------------|
| 17. (+) | C MG | Grain: weight of 1000 seeds | Semence: poids de 1000 grains | Samen: Tausend- korngewicht | Semilla: peso de 1000 semillas | | |
| QN | | low | faible | niedrig | bajo | El Rincón (Ls), Sunrise (Lp) | 3 |
| | | medium | moyen | mittel | medio | Grasslands Maku (Lp) | 5 |
| | | high | élevé | Hoch | alto | Larrañaga (Lt), INIA Draco (Lc) | 7 |

- 8. Explanations on the Table of Characteristics
- 8.1 Explanations covering several characteristics
 - (a) Characteristics 3 to 7 should be observed at vegetative growth stage
 - (b) Observations on the leaf should be made on the 3rd or 4th leaf from the end tip of the longest stem.
- 8.2 Explanations for individual characteristics

Ad. 5: Stem: density of hairs

The density of hairs should be observed on the same stem on which the length of stem is measured. Which part of the stem?

Ad. 9: Plant: vigour of growth in aftermath

Growth in aftermath should be observed after last cutting in autumn.

Ad. 16: Rhizomes

To add explanation on time of observation

Ad. 17: Seed: weight of 1000 seeds

The characteristic should be assessed on the harvest seed.

9. <u>Literature</u>

10. <u>Technical Questionnaire</u>

| TECHNICAL QUESTION | NAIRE | Page {x} of {y} | Reference Number: | | | |
|--|---------------|---|--|-------|--|--|
| | | | Application date: (not to be filled in by the applic | eant) | | |
| TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | | | | | | |
| 1. Subject of the Techni Please indicate: | cal Quest | ionnaire | | | | |
| 1.1.1 Botanical Name | Lotus | corniculatus L. | | [] | | |
| 1.1.2 Common Name | Bird's | s Foot Trefoil | | | | |
| 1.2.1 Botanical Name | Lotus | pedunculatus Cav. | | [] | | |
| 1.2.2 Common Name | Big T | refoil | | | | |
| 1.3.1 Botanical Name | Lotus | uliginosus Schkuhr | | [] | | |
| 1.3.2 Common Name | | Big trefoil, Broad leaf trefoil, Greater bird's-foot trefoil Major bird's foot trefoil | | | | |
| 1.4.1 Botanical Name | Lotus | tenuis Waldst et Kit. e | x Willd. (syn. <i>L. glaber</i> Mill.) | [] | | |
| 1.4.2 Common Name | Narro | w leaf trefoil, Slender | trefoil | | | |
| 1.5.1 Botanical Name | Lotus | subbiflorus Lag. (syn. | L. suaveolens) | [] | | |
| 1.5.2 Common Name | | | | | | |
| 2. Applicant | | | | | | |
| Name | | | | | | |
| Address | | | | | | |
| | | | | | | |
| | | | | | | |
| Talanhana Na | | | | | | |
| - | Telephone No. | | | | | |
| Fax No. | Fax No. | | | | | |
| E-mail address | | | | | | |
| Breeder (if different f | rom appli | cant) | | | | |
| | | | | | | |

| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
|---|---|--------------------|
| 3. Proposed denomination and broughts and broughts are proposed denomination (if available) Breeder's reference | eeder's reference | |
| #4. Information on the breeding sch 4.1 Breeding scheme Variety resulting from: | eme and propagation of | of the variety |
| (b) partially kno (please state (c) unknown cro | parent varieties) own cross known parent variety(oss | [] [] (ies)) |
| 4.1.2 Discovery and dev (please state where 4.1.3 Other (please provide de | e and when discovered | and how developed) |
| 4.2 Method of Propagating the (a) Cross-pollinated | • | |
| (i) population (ii) synthetic (b) Other | 1 | [] [] |
| (please provide deta | ils) | |

[#] 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:

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) | Ploidy | | |
| | diploid | Sunrise (Lp), Larrañaga (Lt) | 2[] |
| | tetraploid | Grasslands Maku (Lp), San Gabriel (Lc) | 4[] |
| 5.2 (10) | Plant: time of beginning of flowering (when 3 inflorescences show color in the floret) | | |
| | very early | Agrosan Trueno (Lc) | 1[] |
| | early | San Gabriel (Lc) | 3[] |
| | medium | Estanzuela Ganador (Lc) | 5[] |
| | late | Rodeo (Lc) | 7[] |
| | very late | Leo (Lc) | 9[] |
| 5.3 (13) | Leaf: length of central leaflet | | |
| | short | | 3[] |
| | medium | Sunrise (Lp) | 5[] |
| | long | Grasslands Maku (Lp) | 7[] |
| 5.4 (14) | Leaf: width of central leaflet | | |
| | narrow | Matrero (Lt) | 3[] |
| | medium | San Gabriel (Lc) | 5[] |
| | broad | Grasslands Maku (Lp) | 7[] |

| TECHNICAL QUESTI | ONNAIRE | Page {x} | of {y} | Reference N | Jumber: |
|--------------------------|-------------------------------|--------------------------|-------------------------------|----------------|--|
| | | | | | |
| 6. Similar varieties | and difference | es from the | ese varieties | | |
| candidate variety differ | rs from the va This inform | riety (or v nation ma | varieties) wh y help the c | nich, to the b | nformation on how you est of your knowledge, i authority to conduct it |
| Denomination(s) of | Characteris | ` ' | | - | Describe the expression |
| variety(ies) similar to | which your | candidate | of the char | racteristic(s) | of the characteristic(s) |
| your candidate variety | variety diffe | ers from | for the | similar | for your candidate |
| | the similar va | ariety(ies) | varie | ty(ies) | variety |
| (Example) | Plant: h | eight | e.g. | 90 cm | 130 cm |
| | | | | | |
| | | | | | |
| | | | | | |
| Comments: | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| TECI | HNICA | L QUESTIONNAIRE | Page {x} of | { y } | Reference Number: |
|-----------------|---|---|------------------|--------------|--|
| [#] 7. | Additi | onal information which | may help in th | ne examin | nation of the variety |
| 7.1 | | lition to the information teristics which may help | | | s 5 and 6, are there any additional ety? |
| | Yes | [] | No [] | | |
| | (If yes, | please provide details) | | | |
| 7.2 | Are the | ere any special condition | ns for growing | the vari | ety or conducting the examination? |
| | 7.2.1 | Duration | | | |
| | | (i) annual(ii) perennial | | | [] [] |
| | 7.2.2 | Are there any other spexamination? | pecial condition | ons for g | rowing the variety or conducting the |
| | | Yes [] | No | [] | |
| | (If yes, | please provide details) | | | |
| 7.3 | Other | information | | | |
| 8. | Autho | rization for release | | | |
| | (a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health? | | | | |
| | 7 | Yes [] | No | [] | |
| | (b) l | Has such authorization b | een obtained? | | |
| | 7 | Yes [] | No | [] | |
| | If the a | answer to (b) is yes, plea | se attach a co | py of the | authorization. |

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

| TECH | HNICA | AL QUESTIONNAIRE | Page $\{x\}$ of $\{y\}$ | Reference Nu | umber: | | | |
|---|---|---|--------------------------|--------------|---------|--------|--|--|
| 9. 9.1 | 1 | | | | | | | |
| | ts of t | such as pests and disease issue culture, different ro | | | | | | |
| such must | 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) | Microorganisms (e.g. vir | us, bacteria, phytoplasi | na) | Yes [] | No [] | | |
| | (b) | Chemical treatment (e.g. | growth retardant, pesti | cide) | Yes [] | No [] | | |
| | (c) | Tissue culture | | | Yes [] | No [] | | |
| | (d) | Other factors | | | Yes [] | No [] | | |
| | Pleas | e provide details for wher | e 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 | | | | | | | |

[End of document]