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| |  |  |  | | --- | --- | --- | |  |  | **E** | |  |  |  | |  |  | |  | | --- | | **TG/117/5(proj.4)** | | **ORIGINAL:** English | | **DATE:** 2024-03-09 | | | **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** | | | |  | Geneva |  | |  | |  |  |  | | --- | --- | --- | |  |  |  | |  | DRAFT |  | |  |  |  | |  | |  |  |  | |  | |  | | --- | |  | | **EGG PLANT** | |  | | |  | | --- | |  | | |  | | --- | | UPOV Code(s): SOLAN\_MEL | | |  | | |  | | |  |  | | --- | --- | | |  | | --- | | *Solanum melongena* L. | | |  | | |  | | |  | | --- | | \* | | |  |  |  | | |  | | --- | | **GUIDELINES** | |  | | **FOR THE CONDUCT OF TESTS** | |  | | **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** | | | | |  |  |  | | |  | | --- | | *prepared by experts from the European Union* | | *to be considered by the* | | |  | | --- | | *Technical Working Party for Vegetables* | | | *at its fifty-eighth session, to be held virtually* | | |  | | --- | | *from 2024-04-22 to 2023-05-25* | | | | | | *Disclaimer: this document does not represent UPOV policies or guidance* | | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | Alternative names:\* | | | | | | | |  | | --- | |  | | | | | | | *Botanical name* | *English* | *French* | *German* | *Spanish* | | |  | | --- | | *Solanum melongena* L. | | |  | | --- | | Egg Plant, Aubergine | | |  | | --- | | Aubergine | | |  | | --- | | Aubergine, Eierfrucht | | |  | | --- | | Berenjena | | | | | |  |  |  | | 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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| |  |  | | --- | --- | | TABLE OF CONTENTS | PAGE | |  |  | | |  |  |  | | --- | --- | --- | | 1. | SUBJECT OF THESE TEST GUIDELINES.......................................................................................................... | [3](#Section1) | |  |  |  | | 2. | MATERIAL REQUIRED..................................................................................................................... | [3](#Section2) | |  |  |  | | 3. | METHOD OF EXAMINATION............................................................................................................... | [3](#Section3) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 3.1 | Number of Growing Cycles................................................................................................................. | [3](#Section3-1) | | 3.2 | Testing Place................................................................................................................... | [3](#Section3-2) | | 3.3 | Conditions for Conducting the Examination............................................................................................... | [3](#Section3-3) | | 3.4 | Test Design................................................................................................................. | [4](#Section3-4) | | 3.5 | Additional Tests................................................................................................................... | [4](#Section3-5) | | | |  |  |  | | 4. | ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY................................................................. | [4](#Section4) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 4.1 | Distinctness.......................................................................................................... | [4](#Section4-1) | | 4.2 | Uniformity............................................................................................................ | [5](#Section4-2) | | 4.3 | Stability............................................................................................................... | [5](#Section4-3) | | | |  |  |  | | 5. | GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL................................................ | [6](#Section5) | |  |  |  | | 6. | INTRODUCTION TO THE TABLE OF CHARACTERISTICS................................................................................ | [6](#Section6) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 6.1 | Categories of Characteristics...................................................................................................... | [6](#Section6-1) | | 6.2 | States of Expression and Corresponding Notes........................................................................................ | [6](#Section6-2) | | 6.3 | Types of Expression............................................................................................................ | [7](#Section6-3) | | 6.4 | Example Varieties.............................................................................................................. | [7](#Section6-4) | | 6.5 | Legend................................................................................................................. | [8](#Section6-5) | | | |  |  |  | | 7. | TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES.................................................................................................................. | [9](#Section7) | |  |  |  | | 8. | EXPLANATIONS ON THE TABLE OF CHARACTERISTICS............................................................................... | [24](#Section8) | |  | |  |  |  | | --- | --- | --- | | 8.1 | Explanations covering several characteristics........................................................................................... | [24](#Section8-1) | | |  | | --- | | 8.2 | | Explanations for individual characteristics................................................................................................. | [25](#Section8-2) | | | |  |  |  | | 9. | LITERATURE................................................................................................................... | [34](#Section9) | |  |  |  | | 10 | TECHNICAL QUESTIONNAIRE............................................................................................................ | [35](#Section10) | |  |  |  | |  | |  | | --- | |  | |  | | | |

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| --- | --- |
| 1. | Subject of these Test Guidelines |
|  |  |
|  | |  | | --- | | These Test Guidelines apply to all varieties of *Solanum melongena* L. | |

|  |  |
| --- | --- |
|  |  |
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| 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 seeds. | |
|  |  |
| 2.3 | |  | | --- | | The minimum quantity of plant material, to be supplied by the applicant, should be: | |
|  |  |
|  | |  | | --- | | 2500 seeds | |
|  |  |
|  | The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. |
|  |  |
| 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. | |

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| 3. | Method of Examination |
|  |  |
| *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 conducted 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* |
|  |  |
|  | |  | | --- | | Each test should be designed to result in a total of at least 20 plants, which should be divided between at least 2 replicates. | |
|  |  |
| |  | | --- | |  |   *3.5* | *Additional Tests* |
|  |  |
|  | Additional tests, for examining relevant characteristics, may be established. |

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| --- | --- |
| 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 or Parts of Plants to be Examined | |
|  |  |
|  | |  | | --- | | Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 10 plants or parts of plants taken from each of 10 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 varieties. 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 | |  | | --- | | For the assessment of uniformity of self-pollinated varieties and hybrids, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 20 plants, 1 off-type is 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 further examined by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied. |

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| 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) | |  | |  | | --- | | Fruit: length (characteristic 15) | | | |  | | --- | | (b) | |  | |  | | --- | | Fruit: ratio length/width (characteristic 17) | | | |  | | --- | | (c) | |  | |  | | --- | | Fruit: shape (characteristic 18) | | | |  | | --- | | (d) | |  | |  | | --- | | Fruit: main color of skin (characteristic 23) | | | |  | | --- | | (e) | |  | |  | | --- | | Fruit: stripes (characteristic 27) | | | |  | | --- | | (f) | |  | |  | | --- | | Fruit: color of flesh (characteristic 37) | | | |  |  | | --- | --- | | |  | | --- | |  | | | | | |
| 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”. |

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| 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 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* |
|  |  |
| |  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | **1** | | |  | | --- | | **2** | | |  | | --- | | **3** | | |  | | --- | | **4** | | |  | | --- | | **5** | | |  | | --- | | **6** | | |  | | --- | | **7** | | | | | |  |  | |  | | --- | | **Name of characteristics in English** | | | |  | | --- | | **Nom du caractère en français** | | | |  | | --- | | **Name des Merkmals auf Deutsch** | | |  | | --- | | **Nombre del carácter en español** | |  |  | |  |  | |  | | --- | | states of expression | | | |  | | --- | | types d’expression | | | |  | | --- | | Ausprägungsstufen | | |  | | --- | | tipos de expresión | | |  | | --- | |  | |  | |  |  |  |  |  |  |  |  |  |  | | |
| |  |  |  |  | | --- | --- | --- | --- | | 1 | Characteristic number | | | |  |  |  |  | | 2 | (\*) | Asterisked characteristic | – see Chapter 6.1.2 | |  |  |  |  | | 3 | Type of expression | | | |  | QL | Qualitative characteristic | – see Chapter 6.3 | |  | QN | Quantitative characteristic | – see Chapter 6.3 | |  | PQ | Pseudo-qualitative characteristic | – see Chapter 6.3 | |  |  |  |  | | 4 | Method of observation (and type of plot, if applicable) | | | |  | MG, MS, VG, VS | | – see Chapter 4.1.5 | |  |  |  |  | | 5 | |  | | --- | | (+) | | |  |  | | --- | --- | | |  | | --- | | See Explanations on the Table of Characteristics in Chapter 8.2 | | | | |  |  |  |  | | 6 | |  | | --- | | (a)-(d) | | |  |  | | --- | --- | | |  | | --- | | See Explanations on the Table of Characteristics in Chapter 8.1 | | | | |  |  |  |  | | 7 | |  | | --- | | Not applicable | | | | | |

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

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** |  | **QN** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Seedling: intensity of anthocyanin coloration of hypocotyl** | | |  | |  |  |  |  |
|  |  | absent or very weak | |  | |  |  | Lydia | 1 |
|  |  | very weak to weak | |  | |  |  |  | 2 |
|  |  | weak | |  | |  |  | Bonica | 3 |
|  |  | weak to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Baluroi | 5 |
|  |  | medium to strong | |  | |  |  |  | 6 |
|  |  | strong | |  | |  |  | Wase Shinkuro | 7 |
|  |  | strong to very strong | |  | |  |  |  | 8 |
|  |  | very strong | |  | |  |  |  | 9 |
| **2.** |  | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Plant: growth habit** | | |  | |  |  |  |  |
|  |  | erect | |  | |  |  | Baluroi, Brigitte, Wase Shinkuro | 1 |
|  |  | erect to semi-erect | |  | |  |  |  | 2 |
|  |  | semi-erect | |  | |  |  | Birgah, Bonica | 3 |
|  |  | semi-erect to spreading | |  | |  |  |  | 4 |
|  |  | spreading | |  | |  |  | Irene | 5 |
| **3.** |  | **QN** | **MS/VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **Plant: height** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | very short to short | |  | |  |  |  | 2 |
|  |  | short | |  | |  |  | Adona, Mogi, Monstrueuse de New York | 3 |
|  |  | short to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Tudela | 5 |
|  |  | medium to tall | |  | |  |  |  | 6 |
|  |  | tall | |  | |  |  | Avan, Baluroi | 7 |
|  |  | tall to very tall | |  | |  |  |  | 8 |
|  |  | very tall | |  | |  |  | Nilo | 9 |
| **4.** |  | **QN** | **MS/VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Stem: length between the cotyledons and the first ramification** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | short | |  | |  |  | Leticia, TSX-250 | 2 |
|  |  | medium | |  | |  |  | Bonica | 3 |
|  |  | long | |  | |  |  | De Barbentane, Hakatanaga | 4 |
|  |  | very long | |  | |  |  | Nilo | 5 |
| **5.** |  | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Stem: anthocyanin coloration** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very weak | |  | |  |  | Blanche ronde à oeuf, Brigitte, Lato | 1 |
|  |  | very weak to weak | |  | |  |  |  | 2 |
|  |  | weak | |  | |  |  | Bonica | 3 |
|  |  | weak to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Baluroi | 5 |
|  |  | medium to strong | |  | |  |  |  | 6 |
|  |  | strong | |  | |  |  | Ronde de Valence | 7 |
|  |  | strong to very strong | |  | |  |  |  | 8 |
|  |  | very strong | |  | |  |  | Money Maker No 2 | 9 |
| **6.** |  | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Stem: pubescence** | | |  | |  |  |  |  |
|  |  | very weak | |  | |  |  | Kesia | 1 |
|  |  | very weak to weak | |  | |  |  |  | 2 |
|  |  | weak | |  | |  |  | Baluroi, Wase Shinkuro | 3 |
|  |  | weak to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Abrivado, Bonica | 5 |
|  |  | medium to strong | |  | |  |  |  | 6 |
|  |  | strong | |  | |  |  | Mistral | 7 |
|  |  | strong to very strong | |  | |  |  |  | 8 |
|  |  | very strong | |  | |  |  | Black Pearl | 9 |
| **7.** |  | **QN** | **MS/VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: size** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | Blanche ronde à oeuf | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  |  | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Baluroi | 5 |
|  |  | medium to large | |  | |  |  |  | 6 |
|  |  | large | |  | |  |  | Bonica | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  | Giada | 9 |
| **8.** |  | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: depth of sinuation of margin** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent to very shallow | |  | |  |  | Baluroi, Bonica | 1 |
|  |  | very shallow to shallow | |  | |  |  |  | 2 |
|  |  | shallow | |  | |  |  | Birgah | 3 |
|  |  | shallow to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Epic, Fabiola | 5 |
|  |  | medium to deep | |  | |  |  |  | 6 |
|  |  | deep | |  | |  |  | Dalia | 7 |
|  |  | deep to very deep | |  | |  |  |  | 8 |
|  |  | very deep | |  | |  |  | Listada de Gandia | 9 |
| **9.** |  | **QN** | **VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: blistering** | | |  | |  |  |  |  |
|  |  | absent or very weak | |  | |  |  | Baluroi | 1 |
|  |  | very weak to weak | |  | |  |  |  | 2 |
|  |  | weak | |  | |  |  | Wase Shinkuro | 3 |
|  |  | weak to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Bonica | 5 |
|  |  | medium to strong | |  | |  |  |  | 6 |
|  |  | strong | |  | |  |  | Listada de Gandia | 7 |
|  |  | strong to very strong | |  | |  |  |  | 8 |
|  |  | very strong | |  | |  |  |  | 9 |
| **10** |  | **QN** | **VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: intensity of green color** | | |  | |  |  |  |  |
|  |  | very light | |  | |  |  |  | 1 |
|  |  | very light to light | |  | |  |  |  | 2 |
|  |  | light | |  | |  |  | Black Beauty | 3 |
|  |  | light to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Baluroi, Bonica | 5 |
|  |  | medium to dark | |  | |  |  |  | 6 |
|  |  | dark | |  | |  |  | Purpura | 7 |
|  |  | dark to very dark | |  | |  |  |  | 8 |
|  |  | very dark | |  | |  |  |  | 9 |
| **11** |  | **QN** | **MG/VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Time of flowering** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very early | |  | |  |  |  | 1 |
|  |  | very early to early | |  | |  |  |  | 2 |
|  |  | early | |  | |  |  | Lato | 3 |
|  |  | early to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Bonica | 5 |
|  |  | medium to late | |  | |  |  |  | 6 |
|  |  | late | |  | |  |  | Monstrueuse de New York | 7 |
|  |  | late to very late | |  | |  |  |  | 8 |
|  |  | very late | |  | |  |  |  | 9 |
| **12** |  | **QL** | **VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Inflorescence: truss** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent | |  | |  |  | Bonica | 1 |
|  |  | present | |  | |  |  | Blanche ronde à oeuf | 9 |
| **13** |  | **QN** | **MS/VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Flower: size** | | |  | |  |  |  |  |
|  |  | small | |  | |  |  | Cima viola | 1 |
|  |  | small to medium | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Monstrueuse de New York | 3 |
|  |  | medium to large | |  | |  |  |  | 4 |
|  |  | large | |  | |  |  | Prosperosa | 5 |
| **14** |  | **PQ** | **VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Flower: color** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | white | |  | |  |  |  | 1 |
|  |  | light purple | |  | |  |  | Listada de Gandia | 2 |
|  |  | medium purple | |  | |  |  | Baluroi, Tsudanaga | 3 |
|  |  | dark purple | |  | |  |  | Ronde de Valence, Senryo Nigo | 4 |
| **15** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Blanche ronde à oeuf | 1 |
|  |  | very short to short | |  | |  |  |  | 2 |
|  |  | short | |  | |  |  | Birgah | 3 |
|  |  | short to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Flavine, Nigral | 5 |
|  |  | medium to long | |  | |  |  |  | 6 |
|  |  | long | |  | |  |  | Melana, Mistral | 7 |
|  |  | long to very long | |  | |  |  |  | 8 |
|  |  | very long | |  | |  |  | Indira | 9 |
| **16** |  | **QN** | **MS/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: width** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very narrow | |  | |  |  | Valentina, White Egg | 1 |
|  |  | very narrow to narrow | |  | |  |  |  | 2 |
|  |  | narrow | |  | |  |  | Avan, Mistral | 3 |
|  |  | narrow to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Oriental, Tasca | 5 |
|  |  | medium to broad | |  | |  |  |  | 6 |
|  |  | broad | |  | |  |  | Bonica, Tudela | 7 |
|  |  | broad to very broad | |  | |  |  |  | 8 |
|  |  | very broad | |  | |  |  | Birgah | 9 |
| **17** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: ratio length/width** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very low | |  | |  |  | Birgah | 1 |
|  |  | very low to low | |  | |  |  |  | 2 |
|  |  | low | |  | |  |  | Bonica | 3 |
|  |  | low to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Flavine | 5 |
|  |  | medium to high | |  | |  |  |  | 6 |
|  |  | high | |  | |  |  | Indira, Mistral | 7 |
|  |  | high to very high | |  | |  |  |  | 8 |
|  |  | very high | |  | |  |  | Hakatanaga | 9 |
| **18** | **(\*)** | **PQ** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: shape** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | flattened globular | |  | |  |  | Birgah | 1 |
|  |  | globular | |  | |  |  | Monstrueuse de New York, Purpura | 2 |
|  |  | ovoid | |  | |  |  | Beatrice | 3 |
|  |  | obovate | |  | |  |  | Black King | 4 |
|  |  | pear shaped | |  | |  |  | Listada de Gandia | 5 |
|  |  | club shaped | |  | |  |  | Baluroi, Mileda | 6 |
|  |  | ellipsoid | |  | |  |  | Scorpio | 7 |
|  |  | cylindrical | |  | |  |  | Mirabelle, Tango | 8 |
| **19** |  | **QN** | **MS/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: size of pistil scar** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | Alabaster | 1 |
|  |  | small | |  | |  |  | Baluroi, Wase Shinkuro | 2 |
|  |  | medium | |  | |  |  | Bonica | 3 |
|  |  | large | |  | |  |  | Monstrueuse de New York | 4 |
|  |  | very large | |  | |  |  | Purpura | 5 |
| **20** |  | **PQ** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: apex** | | |  | |  |  |  |  |
|  |  | indented | |  | |  |  | Pietranera | 1 |
|  |  | flattened | |  | |  |  | Prosperosa | 2 |
|  |  | rounded | |  | |  |  | Baluroi | 3 |
|  |  | acute | |  | |  |  | Tanyeli | 4 |
| **21** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: depth of indentation of pistil scar** | | |  | |  |  |  |  |
|  |  | absent to very shallow | |  | |  |  | Blanche ronde à oeuf, Cristal | 1 |
|  |  | shallow | |  | |  |  | Cheryl | 2 |
|  |  | medium | |  | |  |  |  | 3 |
|  |  | deep | |  | |  |  | Pietranera | 4 |
|  |  | very deep | |  | |  |  | Gascona | 5 |
| **22** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Only for varieties with cylindrical fruits: Fruit: curvature** | | |  | |  |  |  |  |
|  |  | absent to weak | |  | |  |  | Abrivado, Freia | 1 |
|  |  | medium | |  | |  |  | Hakatanaga | 2 |
|  |  | strong | |  | |  |  | Alya, Gioleta | 3 |
| **23** | **(\*)** | **QL** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: main color of skin** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | white | |  | |  |  | Alabaster, Blanche ronde à oeuf, Lato | 1 |
|  |  | green | |  | |  |  | Samantha | 2 |
|  |  | pinkish violet | |  | |  |  | Purpura | 3 |
|  |  | brownish violet | |  | |  |  | Baluroi, Lydia | 4 |
| **24** |  | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Only for varieties with green or violet skin color: Fruit: intensity of main color of skin** | | |  | |  |  |  |  |
|  |  | very light | |  | |  |  | Green Knight | 1 |
|  |  | very light to light | |  | |  |  |  | 2 |
|  |  | light | |  | |  |  | Bride, Jewel Jade, Thai Long Green | 3 |
|  |  | light to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Prosperosa | 5 |
|  |  | medium to dark | |  | |  |  |  | 6 |
|  |  | dark | |  | |  |  | Kermit, Patio Baby | 7 |
|  |  | dark to very dark | |  | |  |  |  | 8 |
|  |  | very dark | |  | |  |  | Faselis | 9 |
| **25** |  | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: glossiness** | | |  | |  |  |  |  |
|  |  | very weak | |  | |  |  | Long Tom | 1 |
|  |  | weak | |  | |  |  | Prosperosa | 2 |
|  |  | medium | |  | |  |  | Baluroi | 3 |
|  |  | strong | |  | |  |  | Birgah | 4 |
|  |  | very strong | |  | |  |  | Elisa | 5 |
| **26** | **(\*)** | **QL** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: patches** | | |  | |  |  |  |  |
|  |  | absent | |  | |  |  | Baluroi | 1 |
|  |  | present | |  | |  |  | Emerald Isle | 9 |
| **27** | **(\*)** | **QL** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: stripes** | | |  | |  |  |  |  |
|  |  | absent | |  | |  |  | Baluroi | 1 |
|  |  | present | |  | |  |  | Listada de Gandia | 9 |
| **28** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: conspicuousness of stripes** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very weak | |  | |  |  |  | 1 |
|  |  | weak | |  | |  |  | Bride | 2 |
|  |  | medium | |  | |  |  |  | 3 |
|  |  | strong | |  | |  |  | Listada de Gandia | 4 |
|  |  | very strong | |  | |  |  |  | 5 |
| **29** |  | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: density of stripes** | | |  | |  |  |  |  |
|  |  | very sparse | |  | |  |  |  | 1 |
|  |  | sparse | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  |  | 3 |
|  |  | dense | |  | |  |  | Listada de Gandia | 4 |
|  |  | very dense | |  | |  |  |  | 5 |
| **30** | **(\*)** | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: grooves** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very weak | |  | |  |  | Bonica | 1 |
|  |  | weak | |  | |  |  | Bibo | 2 |
|  |  | medium | |  | |  |  |  | 3 |
|  |  | strong | |  | |  |  | Black Beauty | 4 |
|  |  | very strong | |  | |  |  |  | 5 |
| **31** |  | **QN** | **MS/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: length of peduncle** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Blanche ronde à oeuf | 1 |
|  |  | very short to short | |  | |  |  |  | 2 |
|  |  | short | |  | |  |  | Birgah | 3 |
|  |  | short to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Madonna | 5 |
|  |  | medium to long | |  | |  |  |  | 6 |
|  |  | long | |  | |  |  | Alex, Tanyeli | 7 |
|  |  | long to very long | |  | |  |  |  | 8 |
|  |  | very long | |  | |  |  | Avan | 9 |
| **32** |  | **QL** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: anthocyanin coloration of skin underneath calyx** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent | |  | |  |  | Birgah, Ronde de Valence | 1 |
|  |  | present | |  | |  |  | Black Beauty, Bonica | 9 |
| **33** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: size of calyx** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | Blanche ronde à oeuf | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  | Lato | 3 |
|  |  | small to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Baluroi, Bonica | 5 |
|  |  | medium to large | |  | |  |  | Larga Morada | 6 |
|  |  | large | |  | |  |  | Abrivado, Monstrueuse de New York | 7 |
|  |  | large to very large | |  | |  |  |  | 8 |
|  |  | very large | |  | |  |  | Dealmagro, Lucilla | 9 |
| **34** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: intensity of anthocyanin coloration of calyx** | | |  | |  |  |  |  |
|  |  | absent or very weak | |  | |  |  | Blanche ronde à oeuf, Dourga | 1 |
|  |  | very weak to weak | |  | |  |  |  | 2 |
|  |  | weak | |  | |  |  | Mirval, Tsudanaga | 3 |
|  |  | weak to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Abrivado, Baluroi | 5 |
|  |  | medium to strong | |  | |  |  |  | 6 |
|  |  | strong | |  | |  |  | Purpura, Wase Shinkuro | 7 |
|  |  | strong to very strong | |  | |  |  |  | 8 |
|  |  | very strong | |  | |  |  |  | 9 |
| **35** | **(\*)** | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: spines on calyx** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent or very few | |  | |  |  | Freia, Lato | 1 |
|  |  | very few to few | |  | |  |  |  | 2 |
|  |  | few | |  | |  |  | Destan | 3 |
|  |  | few to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Bonica, Rioca | 5 |
|  |  | medium to many | |  | |  |  |  | 6 |
|  |  | many | |  | |  |  | Bibo, Sultane | 7 |
|  |  | many to very many | |  | |  |  |  | 8 |
|  |  | very many | |  | |  |  |  | 9 |
| **36** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: creasing of calyx** | | |  | |  |  |  |  |
|  |  | absent or weak | |  | |  |  | Birgah, Madalena | 1 |
|  |  | weak to medium | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Angela, Baluroi | 3 |
|  |  | medium to strong | |  | |  |  |  | 4 |
|  |  | strong | |  | |  |  | Linda, Listada de Gandia | 5 |
| **37** | **(\*)** | **QL** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Fruit: color of flesh** | | |  | |  |  |  |  |
|  |  | white | |  | |  |  | Lato | 1 |
|  |  | green | |  | |  |  | Baluroi | 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | 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) | | |  | | --- | | Plant and stem: observations should be made after the first inflorescence starts to flower and before the start of the harvest, excluding the inflorescence on the first branching. | | | | |  |  |  |  | | |  | | --- | | (b) | | |  | | --- | | Leaf blade: observations should be made after the first inflorescence starts to flower and before the start of the harvest, at the middle third part of the plant and excluding the inflorescence. | | | | |  |  |  |  | | |  | | --- | | (c) | | |  | | --- | | Flower and inflorescence: observations should be made when 50% of the plants of the variety has opened flowers on the second or the third inflorescence. Observations on the flower should be made at fresh, fully opened flowers. | | | | |  |  |  |  | | |  | | --- | | (d) | | |  | | --- | | Fruit: all observations should be made on the first normally developed fruits when the seeds start to develop, and excluding the fruits on the first branching. | | | | |  |  |  |  | |

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| |  |  | | --- | --- | |  | | | |  | | --- | | *8.2* | | *Explanations for individual characteristics* | |  | | | |  | | --- | | Ad. 1: Seedling: intensity of anthocyanin coloration of hypocotyl  Observations should be made at full development of the cotyledons, and before transplanting. | | | | |  | | --- | | Ad. 2: Plant: growth habit  This characteristic could be observed when plants are grown under natural conditions.  For trials where plants are staked or grown on a wire and pruned, this characteristic can possibly not be observed. | | | | |  | | --- | | Ad. 4: Stem: length between the cotyledons and the first ramification  *picture to be provided* | | | | |  | | --- | | Ad. 5: Stem: anthocyanin coloration  Observations should be made on the upper third of the plant. | | | | |  | | --- | | Ad. 6: Stem: pubescence  See Ad. 5 | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 8: Leaf blade: depth of sinuation of margin  Sinuation of margin is composed by incisions of the leaf margin. It may form some lobing that never reach the midrib.  Observation should be made not involving the undulation of the margin.     |  | | --- | |  |  |  |  |  |  | | --- | --- | --- | --- | | 1 | 3 | 5 | 7 | | absent to very shallow | shallow | medium | deep | | | | |

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| |  |  | | --- | --- | | |  | | --- | | Ad. 31: Fruit: length of peduncle | | | |  | | --- | | Ad. 33: Fruit: size of calyx  Observations should be made regarding the size of the calyx, and regardless of the size of the fruit. | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 34: Fruit: intensity of anthocyanin coloration of calyx   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | *picture to be provided* |  |  |  | | 1 | 3 | 5 | 7 | 9 | | absent or very weak | weak | medium | strong | very strong | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 35: Fruit: spines on calyx  Observations should be made on the number of the spines.     |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | | 1  absent or very few | 3  few | 5  medium | 7  many | | | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | 9. | Literature | | |  |  |  | | --- | | Adinolfi, A., Bianchi, M.:  “Caratterizzazione di varieta di Melanzana,” Quaderno n. 38 dell’E.N.S.E.    Daunay, M. C., Lester, R. N., Ano, G., 2001:  “Eggplant,” p. 199-222 in Tropical Plant Breeding (569 p.), Scient. Ed., Charrier, A., Jacquot, M., Hamon, S., Nicolas, D., CIRAD; Science Publishers, Inc., Enfield (USA), Plymouth GB, 569 p.  Naktuinbouw and NCSS(/NARO), 2019: Calibration Manual DUS Test for Eggplant  Phillips, R., Rix, M., 1995:  “Vegetables”, Macmillan Reference Books. | | |

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| |  |  | | --- | --- | | 10. | Technical Questionnaire | |
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| |  |  |  | | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: | |
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| |  |  | | --- | --- | |  | 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 | |  | | --- | | *Solanum melongena* L. | | |  | | --- | |  | | |  |  |  |  |  | |  | |  | | --- | | 1.2 | | Common name | |  | | --- | | Egg Plant, Aubergine | |  | |  |  |  | |  | | --- | |  | |  | |  |  |  |  |  | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 2. | Applicant | | | | |  |  |  |  |  | |  | Name | |  |  | |  |  |  |  |  | |  | Address | |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |  | |  | Telephone No. | |  |  | |  |  |  |  |  | |  | Fax No. | |  |  | |  |  |  |  |  | |  | E-mail address | |  |  | |  |  |  |  |  | |  | Breeder (if different from | |  |  | |  | applicant) | |  |  | |  |  |  |  |  | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 3. | Proposed denomination and breeder's reference | | | | |  |  |  |  |  | |  | Proposed denomination | |  |  | |  | (if available) | |  |  | |  |  |  |  |  | |  | Breeder's reference | |  |  | |  |  |  |  |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | TECHNICAL QUESTIONNAIRE | | | Page {x} of {y} | Reference Number: | |  | | | | | | |  | | --- | | #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 | | [ ] | | |  | | --- | | (b) | | |  | | --- | | partially known cross | | [ ] | | |  | | --- | | (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) | [ ] | |  |  | | |  |  | | | | | | |

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| |  |  |  | | --- | --- | --- | |  |  |  | |  | 4.2 | Method of propagating the variety | |  | |  |  |  | | --- | --- | --- | | |  | | --- | | 4.2.1 | | |  | | --- | | Seed-propagated varieties | |  | | |  | | --- | | (a) | | |  | | --- | | Self-pollination | | [ ] | | |  | | --- | | (b) | | |  | | --- | | Cross-pollination | | [ ] | | |  | | --- | | (c) | | |  | | --- | | Hybrid | | [ ] | | |  | | --- | | (d) | | |  | | --- | | Inbred line | | [ ] | | |  | | --- | | (e) | | |  | | --- | | Other (please provide details) | | [ ] | |  |  |  | |  |  |  | |  |  |  | | |  | | --- | | 4.2.2 | | Other (Please provide details) | [ ] | |  |  |  | |  |  |  | |  |  |  | | | |  | |  |  | | --- | --- | | |  | | --- | |  | | | | |

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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** |  |  | | --- | | **(3)** | | |  | | --- | | **Plant: height** | |  |  |
|  | |  | | --- | | very short | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very short to short | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | short | | |  | | --- | | Adona, Mogi, Monstrueuse de New York | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | short to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Tudela | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to tall | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | tall | | |  | | --- | | Avan, Baluroi | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | tall to very tall | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very tall | | |  | | --- | | Nilo | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.2** |  |  | | --- | | **(6)** | | |  | | --- | | **Stem: pubescence** | |  |  |
|  | |  | | --- | | very weak | | |  | | --- | | Kesia | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very weak to weak | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | weak | | |  | | --- | | Baluroi, Wase Shinkuro | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | weak to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Abrivado, Bonica | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to strong | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | strong | | |  | | --- | | Mistral | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | strong to very strong | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very strong | | |  | | --- | | Black Pearl | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
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| |  | | --- | | **5.3** |  |  | | --- | | **(12)** | | |  | | --- | | **Inflorescence: truss** | |  |  |
|  | |  | | --- | | absent | | |  | | --- | | Bonica | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | present | | |  | | --- | | Blanche ronde à oeuf | | |  | | --- | | 9 [   ] | |
|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| |  | | --- | | **5.4** |  |  | | --- | | **(15)** | | |  | | --- | | **Fruit: length** | |  |  |
|  | |  | | --- | | very short | | |  | | --- | | Blanche ronde à oeuf | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very short to short | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | short | | |  | | --- | | Birgah | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | short to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Flavine, Nigral | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to long | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | long | | |  | | --- | | Melana, Mistral | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | long to very long | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very long | | |  | | --- | | Indira | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.5** |  |  | | --- | | **(17)** | | |  | | --- | | **Fruit: ratio length/width** | |  |  |
|  | |  | | --- | | very low | | |  | | --- | | Birgah | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very low to low | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | low | | |  | | --- | | Bonica | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | low to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Flavine | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to high | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | high | | |  | | --- | | Indira, Mistral | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | high to very high | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very high | | |  | | --- | | Hakatanaga | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.6** |  |  | | --- | | **(18)** | | |  | | --- | | **Fruit: shape** | |  |  |
|  | |  | | --- | | flattened globular | | |  | | --- | | Birgah | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | globular | | |  | | --- | | Monstrueuse de New York, Purpura | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | ovoid | | |  | | --- | | Beatrice | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | obovate | | |  | | --- | | Black King | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | pear shaped | | |  | | --- | | Listada de Gandia | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | club shaped | | |  | | --- | | Baluroi, Mileda | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | ellipsoid | | |  | | --- | | Scorpio | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | cylindrical | | |  | | --- | | Mirabelle, Tango | | |  | | --- | | 8 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.7** |  |  | | --- | | **(23)** | | |  | | --- | | **Fruit: main color of skin** | |  |  |
|  | |  | | --- | | white | | |  | | --- | | Alabaster, Blanche ronde à oeuf, Lato | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | | Samantha | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | pinkish violet | | |  | | --- | | Purpura | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | brownish violet | | |  | | --- | | Baluroi, Lydia | | |  | | --- | | 4 [   ] | |
|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
|  |  |  |  |
| |  | | --- | | **5.8** |  |  | | --- | | **(24)** | | |  | | --- | | **Only for varieties with green or violet skin color: Fruit: intensity of main color of skin** | |  |  |
|  | |  | | --- | | very light | | |  | | --- | | Green Knight | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very light to light | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | light | | |  | | --- | | Bride, Jewel Jade, Thai Long Green | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | light to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Prosperosa | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to dark | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | dark | | |  | | --- | | Kermit, Patio Baby | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | dark to very dark | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very dark | | |  | | --- | | Faselis | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.9** |  |  | | --- | | **(26)** | | |  | | --- | | **Fruit: patches** | |  |  |
|  | |  | | --- | | absent | | |  | | --- | | Baluroi | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | present | | |  | | --- | | Emerald Isle | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.10** |  |  | | --- | | **(27)** | | |  | | --- | | **Fruit: stripes** | |  |  |
|  | |  | | --- | | absent | | |  | | --- | | Baluroi | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | present | | |  | | --- | | Listada de Gandia | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.11** |  |  | | --- | | **(30)** | | |  | | --- | | **Fruit: grooves** | |  |  |
|  | |  | | --- | | absent or very weak | | |  | | --- | | Bonica | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | weak | | |  | | --- | | Bibo | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | strong | | |  | | --- | | Black Beauty | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | very strong | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.12** |  |  | | --- | | **(35)** | | |  | | --- | | **Fruit: spines on calyx** | |  |  |
|  | |  | | --- | | absent or very few | | |  | | --- | | Freia, Lato | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very few to few | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | few | | |  | | --- | | Destan | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | few to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Bonica, Rioca | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to many | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | many | | |  | | --- | | Bibo, Sultane | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | many to very many | | |  | | --- | |  | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very many | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.13** |  |  | | --- | | **(37)** | | |  | | --- | | **Fruit: color of flesh** | |  |  |
|  | |  | | --- | | white | | |  | | --- | | Lato | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | | Baluroi | | |  | | --- | | 2 [   ] | |

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| |  |  |  | | --- | --- | --- | | 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 | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | *Example* | |  | | --- | | *Fruit: length* | | |  | | --- | | *1 - very short* | | |  | | --- | | *3 - short* | | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |  | Comments: | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | #7. | | Additional information which may help in the examination of the variety | | | | |  |  |  | | | | 7.1 | In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? | | | | |  | Yes | [ ] | No | [ ] | |  | (If yes, please provide details) | | | | | 7.2 | Are there any special conditions for growing the variety or conducting the examination? | | | | |  | Yes | [ ] | No | [ ] | |  | (If yes, please provide details) | | | | | 7.3 | Other information | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | • | It is strongly recommended to add a representative color image of the fruits of the variety to the TQ. |   The photograph will provide a visual illustration of the candidate variety which supplements the information provided in the Technical Questionnaire. The key points to consider when taking a photograph of the candidate variety are:  - Indication of the date and geographic location  - Correct labeling (breeder’s reference)  - Good quality printed photograph (minimum 10 cm x 15 cm) and/or sufficient resolution electronic format version (minimum 960 x 1280 pixels)  Further guidance on providing photographs with the Technical Questionnaire is available at: http://www.upov.int/edocs/tgpdocs/en/tgp\_7.pdf  The link provided may be deleted by members of the Union when developing authorities’ own test guidelines.]     |  |  | | --- | --- | | • | Resistance to pest and diseases |      |  |  | | --- | --- | | • | Type of culture:   [   ] under glass      [   ]   in the open | | | | | | | |  |  |  |  |  | |

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 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 (b) is yes, please attach a copy of the authorization. | | | | | |  |  |  |  |  |  | |
| |  |  | | --- | --- | | |  | | --- | | 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) | Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [ ] | No [ ] |  | |  | (b) | Chemical treatment (e.g. growth retardant, pesticide) | Yes [ ] | No [ ] |  | |  | (c) | Tissue culture | Yes [ ] | No [ ] |  | |  | (d) | 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 |  |  | |  |  |  | |  |  | |  |  |  |  |  |  | |
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