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| |  |  |  | | --- | --- | --- | |  |  | **E** | |  |  |  | |  |  | |  | | --- | | **TG/84/5(proj.1)** | | **ORIGINAL:** English | | **DATE:** 2024-04-19 | | | **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** | | | |  | Geneva |  | |  | |  |  |  | | --- | --- | --- | |  |  |  | |  | DRAFT |  | |  |  |  | |  | |  |  |  | |  | |  | | --- | |  | | **JAPANESE PLUM** | |  | | |  | | --- | |  | | |  | | --- | | UPOV Code(s): PRUNU\_SAL; PRUNU\_SAM | | |  | | |  | | |  |  | | --- | --- | | |  | | --- | | *Prunus salicina* Lindl.; hybrids between *Prunus salicina* and *Prunus armeniaca* | | | |  | | |  | | --- | | \* | | |  |  |  | | |  | | --- | | **GUIDELINES** | |  | | **FOR THE CONDUCT OF TESTS** | |  | | **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** | | | | |  |  |  | | |  | | --- | | *prepared by experts from France* | | *to be considered by the* | | |  | | --- | | *Technical Working Party for Fruit Crops* | | | *at its fifty-fifth session, to be held virtually* | | |  | | --- | | *from 2024-06-03 to 2024-06-06* | | | | | | *Disclaimer: this document does not represent UPOV policies or guidance* | | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | |  | | --- | | Alternative names:\* | | | | | | | |  | | --- | |  | | | | | | | *Botanical name* | *English* | *French* | *German* | *Spanish* | | |  | | --- | | *Prunus salicina* Lindl. | | |  | | --- | | Japanese plum | | |  | | --- | | Prunier Japonais | | |  | | --- | | Ostasiatische Pflaume | | |  | | --- | | Ciruelo Japonés | | | |  | | --- | | hybrids between *Prunus salicina* and *Prunus armeniaca*, *Prunus armeniaca* x *Prunus salicina* x *Prunus armeniaca,* *Prunus salicina* x *Prunus armeniaca,* *Prunus salicina* x *Prunus armeniaca* x *Prunus salicina,* *Prunus salicina* x *Prunus salicina* x *Prunus armeniaca* | | |  | | --- | | Plumcot | | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | | | | | |
| |  |  |  | | --- | --- | --- | |  |  |  | | 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.......................................................................................................... | [4](#Section1) | |  |  |  | | 2. | MATERIAL REQUIRED..................................................................................................................... | [4](#Section2) | |  |  |  | | 3. | METHOD OF EXAMINATION............................................................................................................... | [4](#Section3) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 3.1 | Number of Growing Cycles................................................................................................................. | [4](#Section3-1) | | 3.2 | Testing Place................................................................................................................... | [4](#Section3-2) | | 3.3 | Conditions for Conducting the Examination............................................................................................... | [4](#Section3-3) | | 3.4 | Test Design................................................................................................................. | [6](#Section3-4) | | 3.5 | Additional Tests................................................................................................................... | [6](#Section3-5) | | | |  |  |  | | 4. | ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY................................................................. | [6](#Section4) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 4.1 | Distinctness.......................................................................................................... | [6](#Section4-1) | | 4.2 | Uniformity............................................................................................................ | [7](#Section4-2) | | 4.3 | Stability............................................................................................................... | [7](#Section4-3) | | | |  |  |  | | 5. | GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL................................................ | [8](#Section5) | |  |  |  | | 6. | INTRODUCTION TO THE TABLE OF CHARACTERISTICS................................................................................ | [8](#Section6) | |  |  |  | |  | |  |  |  | | --- | --- | --- | | 6.1 | Categories of Characteristics...................................................................................................... | [8](#Section6-1) | | 6.2 | States of Expression and Corresponding Notes........................................................................................ | [8](#Section6-2) | | 6.3 | Types of Expression............................................................................................................ | [9](#Section6-3) | | 6.4 | Example Varieties.............................................................................................................. | [9](#Section6-4) | | 6.5 | Legend................................................................................................................. | [10](#Section6-5) | | | |  |  |  | | 7. | TABLE OF CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE CARACTERES.................................................................................................................. | [11](#Section7) | |  |  |  | | 8. | EXPLANATIONS ON THE TABLE OF CHARACTERISTICS............................................................................... | [33](#Section8) | |  | |  |  |  | | --- | --- | --- | | 8.1 | Explanations covering several characteristics........................................................................................... | [33](#Section8-1) | | |  | | --- | | 8.2 | | Explanations for individual characteristics................................................................................................. | [34](#Section8-2) | | | |  |  |  | | 9. | LITERATURE................................................................................................................... | [43](#Section9) | |  |  |  | | 10 | TECHNICAL QUESTIONNAIRE............................................................................................................ | [44](#Section10) | |  |  |  | |  | |  | | --- | |  | |  | | | |

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| --- | --- | --- | --- | --- |
| 1. | Subject of these Test Guidelines | | | |
|  |  | | | |
| 1.1 | |  | | --- | | These Test Guidelines apply to all varieties of *Prunus salicina* Lindl. and hybrids beyween *Prunus salicina* Lindl. and *Prunus armeniaca* Lindl. | | | | |
|  |  | | | |
| 1.2 | Guidance on the use of Test Guidelines for other hybrids involving *Prunus salicina* L. that are not explicitly covered by Test Guidelines is provided in document TGP/13 "Guidance for New Types and Species" | | | |
|  |  | |
|  |  | |
| 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 budsticks or dormant shoots for grafting, or one-year-old trees grafted on a rootstock specified by the competent authority. | | |
|  |  | |
| 2.3 | |  | | --- | | The minimum quantity of plant material, to be supplied by the applicant, should be: | | |
|  |  | |
|  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  | | --- | --- | |  | 3 budsticks or dormant shoots sufficient to propagate 3 trees or | |  | 3 one-year-old trees | | | |
|  |  | |
| 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* | | |
|  |  | | |
| |  | | --- | | 3.1.1 | | The minimum duration of tests should normally be two independent growing cycles. | | |
|  |  | | |
| |  | | --- | | 3.1.2 | | The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles. | | |
|  |  | | |
| |  | | --- | | 3.1.3 | | |  | | --- | | In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles. | | | |
|  |  | | |
| |  | | --- | | 3.1.4 | | The growing cycle is considered to be the duration of a single growing season, beginning with bud burst (flowering and/or vegetative), flowering and fruit harvest and concluding when the following dormant period ends with the swelling of new season buds. | | |
|  |  | | |
| |  | | --- | | 3.1.5 | | The testing of a variety may be concluded when the competent authority can determine with certainty the outcome of the test. | | |
|  |  | | |
| *3.2* | *Testing Place* | | |
|  |  | | |
|  | Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 “Examining Distinctness”. | | |
|  |  | | |
| *3.3* | *Conditions for Conducting the Examination* | | |
|  |  | | |
| |  | | --- | |  | | The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. | | |
|  |  | | |
| *3.4* | *Test Design* | | |
|  |  | | |
| 3.4.1 | |  | | --- | | Each test should be designed to result in a total of at least 3 trees. | | | |
|  |  | | |
| |  | | --- | | 3.4.2 | | |  | | --- | | The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle. | | | |
|  |  | | |
| |  | | --- | |  |   *3.5* | *Additional Tests* | | |
|  |  | | |
|  | Additional tests, for examining relevant characteristics, may be established. | | |
|  |  |
|  |  |
| 4. | Assessment of Distinctness, Uniformity and Stability |
|  |  |
| *4.1* | *Distinctness* |
|  |  |
| 4.1.1 | General Recommendations |
|  |  |
|  | It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines. |
|  |  |
| 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 3 plants or parts of plants taken from each of 3 plants and any other observations made on all plants in the test, disregarding any off-type plants. | |
|  |  |
|  | |  | | --- | | In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 5. | |
|  |  |
| 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 vegetatively 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 vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 3 plants, no 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 further examined by testing a new 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) | |  | |  | | --- | | Fruit: size (characteristic 29) | | | |  | | --- | | (b) | |  | |  | | --- | | Fruit: ground color of skin (characteristic 43) | | | |  | | --- | | (c) | |  | |  | | --- | | Fruit: hue of over color (characteristic 44) | | | |  | | --- | | (d) | |  | |  | | --- | | Fruit: relative area of over color (characteristic 45) | | | |  | | --- | | (e) | |  | |  | | --- | | Fruit: color of flesh (characteristic 49) | | | |  | | --- | | (f) | |  | |  | | --- | | Time of beginning of flowering (characteristic 63) | | | |  | | --- | | (g) | |  | |  | | --- | | Time of beginning of fruit ripening (characteristic 64) | | | |  |  | | --- | --- | | |  | | --- | |  | | | | | |
| 5.4 | Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 “Examining Distinctness”. |

|  |  |
| --- | --- |
| 6. | Introduction to the Table of Characteristics |
|  |  |
| *6.1* | *Categories of Characteristics* |
| 6.1.1 | Standard Test Guidelines Characteristics |
|  | Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances. |
| 6.1.2 | Asterisked Characteristics |
|  | Asterisked characteristics (denoted by \*) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate. |
| *6.2* | *States of Expression and Corresponding Notes* |
| 6.2.1 | States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description. |
| 6.2.2 | All relevant states of expression are presented in the characteristic. |
|  |  |
| 6.2.3 | Further explanation of the presentation of states of expression and notes is provided in document TGP/7 “Development of Test Guidelines”. |
| *6.3* | *Types of Expression* |
|  | An explanation of the types of expression of characteristics (qualitative, quantitative and 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)-(e) | | |  |  | | --- | --- | | |  | | --- | | 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.** |  | **PQ** | **VG** |  |  |  | | | |
|  |  | |  | | --- | | **Tree: type of bearing** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | on spurs only | |  | |  |  | Gaviota | 1 |
|  |  | on spurs and long shoots | |  | |  |  | Angeleno, Shiro | 2 |
|  |  | on long shoots only | |  | |  |  |  | 3 |
| **2.** |  | **QN** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Tree: vigor** | | |  | |  |  |  |  |
|  |  | very weak | |  | |  |  |  | 1 |
|  |  | very weak to weak | |  | |  |  | ZAI122bisp | 2 |
|  |  | weak | |  | |  |  | Satsuma, Suplumtwelve | 3 |
|  |  | weak to medium | |  | |  |  |  | 4 |
|  |  | medium | |  | |  |  | Autumn Giant, Black Diamond, Obilnaya | 5 |
|  |  | medium to strong | |  | |  |  | Gold Ball | 6 |
|  |  | strong | |  | |  |  | Royal Diamond, Taiyou, Yummygiant | 7 |
|  |  | strong to very strong | |  | |  |  | Methley | 8 |
|  |  | very strong | |  | |  |  |  | 9 |
| **3.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a)** |  | | | |
|  |  | |  | | --- | | **Tree: habit** | | |  | |  |  |  |  |
|  |  | upright | |  | |  |  | Anne Gold, Formosa, Taiyou | 1 |
|  |  | upright to spreading | |  | |  |  | Laroda | 2 |
|  |  | spreading | |  | |  |  | Ozark Premier, Shiro | 3 |
|  |  | drooping | |  | |  |  | Yummygiant | 4 |
| **4.** |  | **PQ** | **VG** | **(+)** | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **One-year‑old shoot: color** | | |  | |  |  |  |  |
|  |  | greyish brown | |  | |  |  | Taiyou | 1 |
|  |  | yellow brown | |  | |  |  | Sordum | 2 |
|  |  | medium brown | |  | |  |  | Methley | 3 |
|  |  | reddish brown | |  | |  |  | Combination | 4 |
| **5.** |  | **QN** | **MS/VG** |  |  |  | | | |
|  |  | |  | | --- | | **Spur: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Laroda, Sordum | 1 |
|  |  | short | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Frontier | 3 |
|  |  | long | |  | |  |  |  | 4 |
|  |  | very long | |  | |  |  | October Purple | 5 |
| **6.** |  | **QN** | **VG** |  | **(b)** |  | | | |
|  |  | |  | | --- | | **Vegetative bud: size** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | small | |  | |  |  | Harry Pickstone | 1 |
|  |  | medium | |  | |  |  | Suplumtwelve | 2 |
|  |  | large | |  | |  |  |  | 3 |
| **7.** |  | **PQ** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **Vegetative bud: shape of apex** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | acute | |  | |  |  | Eldorado | 1 |
|  |  | obtuse | |  | |  |  | Songold | 2 |
|  |  | rounded | |  | |  |  | Satsuma | 3 |
| **8.** |  | **QN** | **VG** | **(+)** | **(b)** |  | | | |
|  |  | |  | | --- | | **One-year-old shoot: position of vegetative bud in relation to shoot** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | adpressed | |  | |  |  | Queen Ann | 1 |
|  |  | slightly held out | |  | |  |  | Satsuma | 2 |
|  |  | markedly held out | |  | |  |  | Songold | 3 |
| **9.** | **(\*)** | **QN** | **MS/VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Blackcot, Obilnaya | 1 |
|  |  | very short to short | |  | |  |  | Queen Gamet | 2 |
|  |  | short | |  | |  |  | Honey Rosa, Pioneer | 3 |
|  |  | short to medium | |  | |  |  | Golden Plumza, Ozark Premier | 4 |
|  |  | medium | |  | |  |  | Friandise, Taiyou | 5 |
|  |  | medium to long | |  | |  |  | Friar, Sun Kiss | 6 |
|  |  | long | |  | |  |  | Lamoon Plum, Sordum | 7 |
|  |  | long to very long | |  | |  |  | Plumsweet IV | 8 |
|  |  | very long | |  | |  |  |  | 9 |
| **10** | **(\*)** | **QN** | **MS/VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: width** | | |  | |  |  |  |  |
|  |  | very narrow | |  | |  |  | Queen Gamet | 1 |
|  |  | very narrow to narrow | |  | |  |  | Pioneer | 2 |
|  |  | narrow | |  | |  |  | Beauty, Ozark Premier | 3 |
|  |  | narrom to medium | |  | |  |  | Gold Ball | 4 |
|  |  | medium | |  | |  |  | Black Diamond, September Yummy, Sordum | 5 |
|  |  | medium to broad | |  | |  |  | Formosa, Methley | 6 |
|  |  | broad | |  | |  |  | Anne Gold, Combination | 7 |
|  |  | broad to very broad | |  | |  |  | Plumred IX | 8 |
|  |  | very broad | |  | |  |  | Flavorella | 9 |
| **11** | **(\*)** | **QN** | **MS/VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: length/width ratio** | | |  | |  |  |  |  |
|  |  | low | |  | |  |  | Anne Gold, Casselman | 1 |
|  |  | medium | |  | |  |  | Pioneer, Suplumtwenty | 2 |
|  |  | high | |  | |  |  | Eclipse, Friandise, Lamoon Plum | 3 |
| **12** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: shape** | | |  | |  |  |  |  |
|  |  | ovate | |  | |  |  | Flavorella | 1 |
|  |  | elliptic | |  | |  |  | October Purple, Suplumtwelve, Syokou, Taiyou | 2 |
|  |  | obovate | |  | |  |  | Kanro, Kelsey, Pioneer, Suplumtwenty | 3 |
| **13** | **(\*)** | **PQ** | **VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: color of upper side** | | |  | |  |  |  |  |
|  |  | light green | |  | |  |  | Ozark Premier, Taiyou | 1 |
|  |  | medium green | |  | |  |  | Abundance, Laroda, Yummygiant | 2 |
|  |  | dark green | |  | |  |  | Gaviota, Shiro | 3 |
|  |  | reddish purple | |  | |  |  | Hollywood | 4 |
| **14** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: angle of apex (excluding tip)** | | |  | |  |  |  |  |
|  |  | acute | |  | |  |  | Friandise, Golden Plumza, Taiyou | 1 |
|  |  | right angled | |  | |  |  | Gold Ball, Ozark Premier, Satsuma, Suplumtwenty | 2 |
|  |  | obtuse | |  | |  |  | Anne Gold, Formosa, Methley | 3 |
| **15** |  | **QN** | **VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf: glossiness of upper side** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | weak | |  | |  |  | Ozark Premier, Taiyou | 1 |
|  |  | medium | |  | |  |  | Frontier, Gold Ball, Shiro | 2 |
|  |  | strong | |  | |  |  | Nubiana, Pioneer | 3 |
| **16** |  | **QN** | **VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: density of pubescence of lower side** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | sparse | |  | |  |  | Angeleno, Redheart, Taiyou | 1 |
|  |  | medium | |  | |  |  | Queen Ann, Shiro | 2 |
|  |  | dense | |  | |  |  | Obilnaja | 3 |
| **17** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf blade: incisions of margin** | | |  | |  |  |  |  |
|  |  | crenate | |  | |  |  | Dapple Dandy , Friandise, Gaviota, Harry Pickstone | 1 |
|  |  | bi-crenate | |  | |  |  | Golden Kiss, Pioneer, Suplumtwenty | 2 |
|  |  | serrate | |  | |  |  |  | 3 |
|  |  | bi-serrate | |  | |  |  | ZAI122bisp | 4 |
| **18** | **(\*)** | **QN** | **MS/VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Petiole: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Plumsweetone, Red Beauty | 1 |
|  |  | short | |  | |  |  | Dapple Dandy , Golden Plumza, Kelsey | 2 |
|  |  | medium | |  | |  |  | Frontier, Gold Ball, Pioneer | 3 |
|  |  | long | |  | |  |  | Combination, Queen Garnet | 4 |
|  |  | very long | |  | |  |  | Blackcot, Flavorella | 5 |
| **19** |  | **QN** | **VG** |  | **(c)** |  | | | |
|  |  | |  | | --- | | **Leaf: position of nectaries** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | predominantly on base of leaf blade | |  | |  |  | Methley | 1 |
|  |  | equally on base of leaf blade and on petiole | |  | |  |  | Nubiana | 2 |
|  |  | predominantly on petiole | |  | |  |  | Queen Ann | 3 |
| **20** |  | **QN** | **MS/VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Pedicel: length** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Dapple Dandy | 1 |
|  |  | short | |  | |  |  | Methley, Sun Kiss, Yummygem | 2 |
|  |  | medium | |  | |  |  | Queen Ann, RD3, Shiro, Zaiterki | 3 |
|  |  | long | |  | |  |  | Red Ace, Taiyou | 4 |
|  |  | very long | |  | |  |  | Grenadine | 5 |
| **21** | **(\*)** | **QN** | **MS/VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Flower: diameter** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | Lamoon Plum | 1 |
|  |  | small | |  | |  |  | Nubiana, Suplumtwelve | 2 |
|  |  | medium | |  | |  |  | Crimson Glo, October Purple, Shiro, Taiyou | 3 |
|  |  | large | |  | |  |  | Kiyou, Methley, Zaiterla | 4 |
|  |  | very large | |  | |  |  | ZAI122bisp | 5 |
| **22** |  | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Flower: arrangement of petals** | | |  | |  |  |  |  |
|  |  | free | |  | |  |  | Laroda | 1 |
|  |  | touching | |  | |  |  | Beauty, Harry Pickstone, Queen Garnet, Shiro | 2 |
|  |  | overlapping | |  | |  |  | Anne Gold, Obilnaya | 3 |
| **23** |  | **PQ** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Sepal: shape** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | triangular | |  | |  |  | Mariposa | 1 |
|  |  | meidum ovate | |  | |  |  | Harry Pickstone | 2 |
|  |  | broad ovate | |  | |  |  | George Wilson | 3 |
|  |  | narrow elliptic | |  | |  |  | Laroda | 4 |
|  |  | medium elliptic | |  | |  |  | Nubiana | 5 |
| **24** |  | **QN** | **MS/VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Petal: length** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very short | |  | |  |  | Lamoon Plum | 1 |
|  |  | short | |  | |  |  | Anne Gold, Laroda, Shigyoku, Sun Kiss, Yummygem | 2 |
|  |  | medium | |  | |  |  | Crimson Glo, Santa Rosa | 3 |
|  |  | long | |  | |  |  | Blackcot, Burbank, September Yummy, Zaiterla | 4 |
|  |  | very long | |  | |  |  | Primetime, ZAI122bisp | 5 |
| **25** | **(\*)** | **PQ** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Petal: shape** | | |  | |  |  |  |  |
|  |  | elliptic | |  | |  |  | Formosa, Red Ace, Taiyou, Yummygiant | 1 |
|  |  | circular | |  | |  |  | Plumsweetone, Shiro, Wickson , Zaipubo | 2 |
|  |  | oblate | |  | |  |  | Wright’s Early | 3 |
|  |  | obovate | |  | |  |  |  | 4 |
| **26** |  | **QN** | **VG** |  | **(d)** |  | | | |
|  |  | |  | | --- | | **Petal: undulation of margin** | | |  | |  |  |  |  |
|  |  | absent or weak | |  | |  |  | Formosa, Redheart, Shiro, Taiyou, Yummygiant | 1 |
|  |  | medium | |  | |  |  | Ozark Premier, Queen Ann, Suplumtwenty | 2 |
|  |  | strong | |  | |  |  | Lady Red, Morettini 355, Showtime | 3 |
| **27** | **(\*)** | **QN** | **VG** | **(+)** | **(d)** |  | | | |
|  |  | |  | | --- | | **Stigma: position in relation to anthers** | | |  | |  |  |  |  |
|  |  | below | |  | |  |  | Mariposa, Suplumtwenty, Yummygiant | 1 |
|  |  | same level | |  | |  |  | Gold Ball, Methley | 2 |
|  |  | above | |  | |  |  | Anne Gold, Obilnaya | 3 |
| **28** |  | **QN** | **MS/VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: length of stalk** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  | Black Diamond | 1 |
|  |  | short | |  | |  |  | Yonemomo, Zaiterla | 2 |
|  |  | medium | |  | |  |  | Anne Gold, Sordum | 3 |
|  |  | long | |  | |  |  | Crimson Glo, Hollywood | 4 |
|  |  | very long | |  | |  |  | Primetime | 5 |
| **29** | **(\*)** | **QN** | **MG/MS/VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: size** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  | Methley | 1 |
|  |  | very small to small | |  | |  |  | Golden Japan | 2 |
|  |  | small | |  | |  |  | Allo, Eldorado, ZAI122bisp | 3 |
|  |  | small to medium | |  | |  |  | Suplumtwentytwo | 4 |
|  |  | medium | |  | |  |  | Shiro, Zaiterla | 5 |
|  |  | medium to large | |  | |  |  | Blackcot, Crimson Glo | 6 |
|  |  | large | |  | |  |  | Angeleno, Friar, Ozark Premier, Taiyou | 7 |
|  |  | large to very large | |  | |  |  | Sun Kiss, Yummygiant | 8 |
|  |  | very large | |  | |  |  | Anne Gold, Lamoon Plum, Songold | 9 |
| **30** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: height** | | |  | |  |  |  |  |
|  |  | very short | |  | |  |  |  | 1 |
|  |  | very short to short | |  | |  |  | Methley | 2 |
|  |  | short | |  | |  |  | Eclipse, Golden Japan | 3 |
|  |  | short to medium | |  | |  |  | Blackcot | 4 |
|  |  | medium | |  | |  |  | Crimson Glo, Harry Pickstone, Sun Kiss | 5 |
|  |  | medium to tall | |  | |  |  | Plumsweet IV | 6 |
|  |  | tall | |  | |  |  | Anne Gold, Suplumtwenty, Valentine | 7 |
|  |  | tall to very tall | |  | |  |  | Hengpral, Lamoon Plum | 8 |
|  |  | very tall | |  | |  |  |  | 9 |
| **31** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: width** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very narrow | |  | |  |  | Methley | 1 |
|  |  | very narrow to narrow | |  | |  |  | Zaiterla | 2 |
|  |  | narrow | |  | |  |  | Amber Jewel, October Sun | 3 |
|  |  | narrow to medium | |  | |  |  | Yummygem | 4 |
|  |  | medium | |  | |  |  | Casselman, Crimson Glo | 5 |
|  |  | medium to broad | |  | |  |  | Ruby Star | 6 |
|  |  | broad | |  | |  |  | Anne Gold, Simka | 7 |
|  |  | broad to very broad | |  | |  |  | Lamoon Plum, Sun Kiss | 8 |
|  |  | very broad | |  | |  |  | Florence, Suplumtwenty | 9 |
| **32** | **(\*)** | **QN** | **MS/VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: ratio height/width** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  | Plumsweet IX, SD7A, Suplumtwenty | 1 |
|  |  | very small to small | |  | |  |  | Dapple Dandy , Friar | 2 |
|  |  | small | |  | |  |  | Anne Gold, Florence | 3 |
|  |  | small to medium | |  | |  |  | Golden Japan, Yummygiant | 4 |
|  |  | medium | |  | |  |  | Soryana, Suplumthirtyone | 5 |
|  |  | medium to high | |  | |  |  | Aphrodite, Grenadine | 6 |
|  |  | high | |  | |  |  | Lamoon Plum, ZAI122bisp | 7 |
|  |  | high to very high | |  | |  |  | October Sun | 8 |
|  |  | very high | |  | |  |  | Hengpral | 9 |
| **33** | **(\*)** | **QN** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: symmetry** | | |  | |  |  |  |  |
|  |  | symmetric or slightly asymmetric | |  | |  |  | Laroda, Shiro, Soryana | 1 |
|  |  | moderately asymmetric | |  | |  |  | Formosa, Friar, Harry Pickstone | 2 |
|  |  | strongly asymmetric | |  | |  |  | Anne Gold, Ozark Premier | 3 |
| **34** | **(\*)** | **PQ** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: shape in lateral view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | oblong | |  | |  |  | Reubennel, ZAI048ISP | 1 |
|  |  | elliptic | |  | |  |  | October Sun, Ozark Premier, Taiyou | 2 |
|  |  | circular | |  | |  |  | Golden Japan, Red Beauty, Shiro | 3 |
|  |  | oblate | |  | |  |  | Friar, Suplumtwenty | 4 |
|  |  | cordate | |  | |  |  | Burbank, Hengpral, Morettini 355 | 5 |
|  |  | obovate | |  | |  |  |  | 6 |
|  |  | obcordate | |  | |  |  |  | 7 |
| **35** | **(\*)** | **PQ** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: shape of base** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | pointed | |  | |  |  | Morettini 355, Taiyou | 1 |
|  |  | truncate | |  | |  |  | Florence, Green Sun, Suplumtwelve | 2 |
|  |  | depressed | |  | |  |  | Calita, Durado, Gabora , Suplumtwenty | 3 |
| **36** |  | **PQ** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: shape of apex** | | |  | |  |  |  |  |
|  |  | pointed | |  | |  |  | Golden Plumza, Hengpral, Lamoon Plum | 1 |
|  |  | rounded | |  | |  |  | Friandise, Shiro | 2 |
|  |  | truncate | |  | |  |  | Angeleno, ZAI048ISP | 3 |
|  |  | depressed | |  | |  |  | Dapple Dandy , Friar, Tereda | 4 |
| **37** |  | **QN** | **MS/VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: depth of stalk cavity** | | |  | |  |  |  |  |
|  |  | shallow | |  | |  |  | Florence, Rubycrunch, Taiyou | 1 |
|  |  | medium | |  | |  |  | Angeleno, Golden Japan, Nubiana | 2 |
|  |  | deep | |  | |  |  | Laroda, Suplumtwelve, Yummygiant | 3 |
| **38** |  | **QN** | **MS/VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: width of stalk cavity** | | |  | |  |  |  |  |
|  |  | narrow | |  | |  |  | Koike Sumomo, October Sun, Queen Garnet | 1 |
|  |  | medium | |  | |  |  | Beni Ryozhen, Friandise | 2 |
|  |  | broad | |  | |  |  | Blackred XII, Finroza | 3 |
| **39** |  | **QN** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: depth of suture** | | |  | |  |  |  |  |
|  |  | absent or very shallow | |  | |  |  | Golden Japan, Methley, Sunrise | 1 |
|  |  | shallow | |  | |  |  | Gold Ball, Pioneer, Taiyou | 2 |
|  |  | medium | |  | |  |  | Formosa, Sordum | 3 |
|  |  | deep | |  | |  |  | Akihime, Plumsweetone | 4 |
| **40** | **(\*)** | **QL** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: pubescence** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | absent | |  | |  |  | Golden Japan, Methley, Soryana | 1 |
|  |  | present | |  | |  |  | Blackcot, ZAI122bisp, Zaiterla | 9 |
| **41** | **(\*)** | **QN** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Only varieties without pubescence on fruit: Fruit: bloom of skin** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | weak | |  | |  |  | Ooishi Nakate, Red June, Soryana | 1 |
|  |  | medium | |  | |  |  | Pioneer, Sordum, Yummygiant | 2 |
|  |  | strong | |  | |  |  | Blackred XII, Friandise, Redyummy, Souvenir II | 3 |
| **42** |  | **QL** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: surface** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | smooth | |  | |  |  | Golden Japan, Soryana | 1 |
|  |  | bumpy | |  | |  |  | Suplumtwelve, Suplumtwenty | 2 |
| **43** | **(\*)** | **PQ** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: ground color of skin** | | |  | |  |  |  |  |
|  |  | not visible | |  | |  |  | Angeleno, Blackred V | 1 |
|  |  | green | |  | |  |  | Gaviota, Santa Rosa | 2 |
|  |  | yellowish green | |  | |  |  | Formosa, Ozark Premier, Songold, Taiyou | 3 |
|  |  | yellow | |  | |  |  | Golden Plumza, Shiro, Sun Kiss | 4 |
| **44** | **(\*)** | **PQ** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: hue of over color** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | none | |  | |  |  | Golden Japan | 1 |
|  |  | orange yellow | |  | |  |  | Zairobe | 2 |
|  |  | medium red | |  | |  |  | Red Beauty, Soryana | 3 |
|  |  | dark red | |  | |  |  | Formosa, Starking Delicious, Taiyou | 4 |
|  |  | purple | |  | |  |  | Karari, Morettini 355, Yummygiant | 5 |
|  |  | dark blue | |  | |  |  | Laroda, Suplumtwenty | 6 |
|  |  | black | |  | |  |  | Angeleno, Blackred V, Blackred XII | 7 |
| **45** | **(\*)** | **QN** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: relative area of over color** | | |  | |  |  |  |  |
|  |  | absent or very small | |  | |  |  | Green Sun, Shiro, Sun Kiss | 1 |
|  |  | very small to small | |  | |  |  |  | 2 |
|  |  | small | |  | |  |  | Anne Gold, Bragialla | 3 |
|  |  | small to medium | |  | |  |  | Zaipubo | 4 |
|  |  | medium | |  | |  |  | Fortune | 5 |
|  |  | medium to large | |  | |  |  | Soryana | 6 |
|  |  | large | |  | |  |  | Burbank, Taiyou | 7 |
|  |  | large to very large | |  | |  |  | Plumred XI | 8 |
|  |  | very large or whole surface | |  | |  |  | Black Diamond, Friar, Suplumeleven | 9 |
| **46** | **(\*)** | **PQ** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: pattern of over color** | | |  | |  |  |  |  |
|  |  | flecks only | |  | |  |  | Tiger, Zaiterla | 1 |
|  |  | mottled | |  | |  |  | Burbank, Formosa, Omega | 2 |
|  |  | solid flush only | |  | |  |  | Blackred XII, Friar, Taiyou | 3 |
| **47** | **(\*)** | **QN** | **MS/VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: number of lenticels** | | |  | |  |  |  |  |
|  |  | few | |  | |  |  | ARC PR 3 | 1 |
|  |  | medium | |  | |  |  | Red Majesty, Sunrise | 2 |
|  |  | many | |  | |  |  | Friandise, Polar Eclipse | 3 |
| **48** | **(\*)** | **QN** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: size of lenticels** | | |  | |  |  |  |  |
|  |  | small | |  | |  |  | Obilnaya, Souvenir II, Sunset | 1 |
|  |  | medium | |  | |  |  | Extreme, Friandise | 2 |
|  |  | large | |  | |  |  | Plumsweet XI, Southern Belle | 3 |
| **49** | **(\*)** | **PQ** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: color of flesh** | | |  | |  |  |  |  |
|  |  | whitish | |  | |  |  | Plumcandy X, Taiyou | 1 |
|  |  | green | |  | |  |  |  | 2 |
|  |  | yellowish green | |  | |  |  | Anne Gold, Shiro | 3 |
|  |  | yellow | |  | |  |  | Angeleno, Golden Japan, Reubennel | 4 |
|  |  | orange | |  | |  |  | Black Amber, Sun Gold, Zaiterla | 5 |
|  |  | medium red | |  | |  |  | Florence, Satsuma, Sordum | 6 |
|  |  | dark red | |  | |  |  | Beauty, Friandise, Hawera, Karari, Stark Delicious | 7 |
|  |  | purplish | |  | |  |  | Blackred VI, Plumred VII, Sangue di Drago | 8 |
| **50** |  | **QN** | **MS/VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: firmness** | | |  | |  |  |  |  |
|  |  | very soft | |  | |  |  | Shiro | 1 |
|  |  | soft | |  | |  |  | Methley | 2 |
|  |  | medium | |  | |  |  | Frontier, ZAI122bisp | 3 |
|  |  | firm | |  | |  |  | Anne Gold, Laroda, Sun Kiss, Taiyou, Zaiterla | 4 |
|  |  | very firm | |  | |  |  | Black Amber, Crimson Glo, Redyummy, Yummybeaut | 5 |
| **51** |  | **QN** | **MG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: juiciness** | | |  | |  |  |  |  |
|  |  | low | |  | |  |  | Autumn Giant, Burbank, Laroda | 1 |
|  |  | medium | |  | |  |  | Friandise, Gaviota, Ozark Premier | 2 |
|  |  | high | |  | |  |  | Reubennel, Santa Rosa, Shiro, Sun Kiss | 3 |
| **52** |  | **QN** | **MG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: acidity** | | |  | |  |  |  |  |
|  |  | low | |  | |  |  | Angeleno, Durado, Florence, Gold Ball, Lamoon Plum | 1 |
|  |  | low to medium | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Anne Gold, Green Sun, Shiro, Soryana, Sun Kiss, Taiyou | 3 |
|  |  | medium to high | |  | |  |  |  | 4 |
|  |  | high | |  | |  |  | Carmen, Crimson Glo, Obilnaja, Pioneer, Zaiterla | 5 |
| **53** |  | **QN** | **MG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: sweetness** | | |  | |  |  |  |  |
|  |  | low | |  | |  |  | Durado, Gold Ball, Obilnaja, Shiro | 1 |
|  |  | low to medium | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  | Angeleno, Pioneer, Soryana | 3 |
|  |  | medium to high | |  | |  |  |  | 4 |
|  |  | high | |  | |  |  | Laroda, Plumcandy X, Plumred VII, Suplumtwelve, Taiyou | 5 |
| **54** | **(\*)** | **QN** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: adherence of stone to flesh** | | |  | |  |  |  |  |
|  |  | non-adherent | |  | |  |  | Fortune | 1 |
|  |  | semi-adherent | |  | |  |  | Black Amber, Nubiana, Ruby Star, Taiyou | 2 |
|  |  | adherent | |  | |  |  | Friandise, Red Majesty, Shiro, Sungold | 3 |
| **55** |  | **QN** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Fruit: amount of fiber** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | low | |  | |  |  |  | 1 |
|  |  | medium | |  | |  |  |  | 2 |
|  |  | high | |  | |  |  |  | 3 |
| **56** | **(\*)** | **QN** | **MS/VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: size in relation to fruit** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | very small | |  | |  |  |  | 1 |
|  |  | small | |  | |  |  |  | 2 |
|  |  | medium | |  | |  |  |  | 3 |
|  |  | large | |  | |  |  |  | 4 |
|  |  | very large | |  | |  |  |  | 5 |
| **57** |  | **PQ** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: shape in lateral view** | | |  | |  |  |  |  |
|  |  | Medium obovate | |  | |  |  | African Rose | 1 |
|  |  | broad obovate | |  | |  |  | Black Diamond | 2 |
|  |  | circular | |  | |  |  | Angeleno, Kelsey, Pioneer, Red Beauty | 3 |
|  |  | narrow elliptic | |  | |  |  | Eldorado, Lamoon Plum, Plumred IX | 4 |
|  |  | medium elliptic | |  | |  |  | Friandise, Santa Rosa, Taiyou | 5 |
| **58** |  | **PQ** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: shape in ventral view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | narrow elliptic | |  | |  |  | Kelsey | 1 |
|  |  | medium elliptic | |  | |  |  | Santa Rosa, Taiyou | 2 |
|  |  | broad elliptic | |  | |  |  | Eldorado | 3 |
| **59** |  | **PQ** | **VG** |  | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: shape in basal view** | | | |  | | --- | |  | | | |  | | --- | |  | | |  | | --- | |  | |  |  |
|  |  | narrow elliptic | |  | |  |  | Shiro, Songold | 1 |
|  |  | medium elliptic | |  | |  |  | Bragialla | 2 |
|  |  | broad elliptic | |  | |  |  | Frontier, Suplumtwelve | 3 |
| **60** |  | **QN** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: symmetry in lateral view** | | |  | |  |  |  |  |
|  |  | symmetric or slightly asymmetric | |  | |  |  | Angeleno, Frontier, Methley | 1 |
|  |  | moderately asymmetric | |  | |  |  | Friandise, Golden Plumza, Shiro | 2 |
|  |  | strongly asymmetric | |  | |  |  | Blackred VI, Obilnaya, Plumred III | 3 |
| **61** |  | **PQ** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: texture of lateral surfaces** | | |  | |  |  |  |  |
|  |  | fine grained | |  | |  |  | Eldorado, Methley, Obilnaya | 1 |
|  |  | granular | |  | |  |  | Nubiana, Pioneer | 2 |
|  |  | rough | |  | |  |  | Laroda, Songold, Zaipubo | 3 |
|  |  | hammered | |  | |  |  | Harry Pickstone, Ozark Premier, Suplumtwenty, Yummygiant | 4 |
| **62** |  | **QN** | **VG** | **(+)** | **(e)** |  | | | |
|  |  | |  | | --- | | **Stone: width of stalk-end** | | |  | |  |  |  |  |
|  |  | narrow | |  | |  |  | Friar, Frontier, Golden Japan, October Sun | 1 |
|  |  | medium | |  | |  |  | Dapple Dandy , Harry Pickstone, Sun Kiss | 2 |
|  |  | broad | |  | |  |  | Angeleno, Lady Red, Red Beauty, Suplumtwenty | 3 |
| **63** | **(\*)** | **QN** | **MG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Time of beginning of flowering** | | |  | |  |  |  |  |
|  |  | very early | |  | |  |  | Blackred VI, Durado, Karari | 1 |
|  |  | very early to early | |  | |  |  | African Rose, Blackred I, Plumred VII, Red Beauty | 2 |
|  |  | early | |  | |  |  | Fortune, Grenadine, Mariposa, Plumsweet V, Taiyou | 3 |
|  |  | early to medium | |  | |  |  | Crimson Glo, Plumsweet IV, Red Majesty | 4 |
|  |  | medium | |  | |  |  | Green Sun, Nubiana, Redyummy, Suplumthirtyone | 5 |
|  |  | medium to late | |  | |  |  | Friandise, Friar, Zairobe | 6 |
|  |  | late | |  | |  |  | Gaviota, Golden Japan, Gradiplum, Ozark Premier, Shiro | 7 |
|  |  | late to very late | |  | |  |  | Anne Gold, Burbank, Zaipubo | 8 |
|  |  | very late | |  | |  |  | Angeleno, Ruby Star, Simka | 9 |
| **64** | **(\*)** | **QN** | **MG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Time of beginning of fruit ripening** | | |  | |  |  |  |  |
|  |  | very early | |  | |  |  | Blackred I, Durado, Red Beauty, Red Noble, Zaiterla | 1 |
|  |  | very early to early | |  | |  |  | African Rose, Methley, Yummygem | 2 |
|  |  | early | |  | |  |  | Golden Japan, Mariposa, Shiro, YummyBeauty | 3 |
|  |  | early to medium | |  | |  |  | Anne Gold, Blackcot, Soryana | 4 |
|  |  | medium | |  | |  |  | Crimson Glo, Gaviota, Suplumtwelve | 5 |
|  |  | medium to late | |  | |  |  | Lamoon Plum, Sun Kiss | 6 |
|  |  | late | |  | |  |  | Angeleno, Nubiana, Plumcandy X, Plumsweet IV, Taiyou, Zaiterki | 7 |
|  |  | late to very late | |  | |  |  | Blackred XII, Florence, Ruby Star | 8 |
|  |  | very late | |  | |  |  | Akihime, Autumn Giant, Golden King, September Yummy | 9 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | 8. | Explanations on the Table of Characteristics | | | |  | | | | | *8.1* | *Explanations covering several characteristics* | | | |  | |  | | --- | |  | | | | |  |  |  |  | |  | Characteristics containing the following key in the Table of Characteristics should be examined as indicated below: | | | |  | | | | | |  | | --- | | (a) | | |  | | --- | | Observations should be made during the dormant period and before the beginning of flowering, on trees that have fruited at least once. | | | | |  |  |  |  | | |  | | --- | | (b) | | |  | | --- | | Observations on bud and shoot should be made at the central third of the shoot. | | | | |  |  |  |  | | |  | | --- | | (c) | | |  | | --- | | Observations should be made on fully developed leaves from the middle third of a well developed current season's shoot. | | | | |  |  |  |  | | |  | | --- | | (d) | | |  | | --- | | Observations should me made on fully developed flowers. | | | | |  |  |  |  | | |  | | --- | | (e) | | |  | | --- | | Observations should be made on mature fruits. Fruits ripening should be considered as the time of eating maturity. | | | | |  |  |  |  | |
| |  |  | | --- | --- | |  | | | |  | | --- | | *8.2* | | *Explanations for individual characteristics* | |  | | | |  | | --- | | Ad. 2: Tree: vigor  The tree vigor should be considered as the overall abundance of vegetative growth. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 3: Tree: habit   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | 1 | 2 | 3 | 4 | | upright | upright to spreading | spreading | drooping | | | | | |  | | --- | | Ad. 4: One-year‑old shoot: color  Observations should be made on the sunny side of one-year-old shoots. | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 7: Vegetative bud: shape of apex   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | acute | obtuse | rounded | | | | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 8: One-year-old shoot: position of vegetative bud in relation to shoot   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | adpressed | slightly held out | markedly held out | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 12: Leaf blade: shape   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | ovate | elliptic | obovate | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 14: Leaf blade: angle of apex (excluding tip)   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | acute | right angled | obtuse | | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 17: Leaf blade: incisions of margin   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | 1 | 2 | 3 | 4 | | crenate | bi-crenate | serrate | bi-serrate | |  |  |  |  | | | | |  | | --- | | Ad. 20: Pedicel: length | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 22: Flower: arrangement of petals   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | free | touching | overlapping | | | |
| |  |  | | --- | --- | | |  | | --- | | Ad. 25: Petal: shape | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 27: Stigma: position in relation to anthers   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | below | same level | above | | | | |  | | --- | | Ad. 30: Fruit: height    (a) Width in ventral view  (b) Height | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | |  | | --- | | Ad. 31: Fruit: width  See Ad. 30. Observation should be made in ventral view | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 33: Fruit: symmetry  The observations should be made in ventral view.   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | symmetric or slightly asymmetric | moderately asymmetric | strongly asymmetric | | | | |  | | --- | | Ad. 34: Fruit: shape in lateral view | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 35: Fruit: shape of base   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | pointed | truncate | depressed | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 36: Fruit: shape of apex   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | 1 | 2 | 3 | 4 | | pointed | rounded | truncate | depressed | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 37: Fruit: depth of stalk cavity   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | shallow | medium | deep | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 38: Fruit: width of stalk cavity   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | narrow | medium | broad | | | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Ad. 42: Fruit: surface   |  |  | | --- | --- | |  |  | | 1 | 9 | | smooth | bumpy | | | | |  | | --- | | Ad. 44: Fruit: hue of over color  Observations should be made after removing bloom. | | | |  | | --- | | Ad. 50: Fruit: firmness  Observations should be made by squeezing the fruits or measured by using a penetrometer. | | | |  | | --- | | Ad. 51: Fruit: juiciness  Observations could be made by calculating the ratio between the weight of a (or several) fresh fruit, and the weight of the juice obtained by pressing those fresh fruits. | | | |  | | --- | | Ad. 52: Fruit: acidity  The acidity should be observed as titrable acidity of juice. Equation is:  Acidity (gram/liter) = (V1 \* N \* me)/V  V = sample volume in mL  V1 = NaOH volume in mL  N = normality of NaOH  me = equivalent weight of malic acid (67) | | | |  | | --- | | Ad. 53: Fruit: sweetness  Observations should be made using degrees Brix. | | | |  | | --- | | Ad. 54: Fruit: adherence of stone to flesh  This characteristic should be assessed by observing on a open fruit the part of the stone that is linked to the flesh. | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 57: Stone: shape in lateral view   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | ←             broadest part             → | | | |  |  | below middle | at middle | | | width (ratio length/width) |  |  |  |  | | narrow  (high) |  |  |  | 4  narrow elliptic | | medium  (medium) |  | 1  medium obovate | 3  circular | 5  medium elliptic | | broad  (low) |  | 2  broad obovate |  |  | | | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 60: Stone: symmetry in lateral view   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | symmetric or slightly asymmetric | moderately asymmetric | strongly asymmetric | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 61: Stone: texture of lateral surfaces   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | 1 | 2 | 3 | 4 | | fine grained | granular | rough | hammered | | | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Ad. 62: Stone: width of stalk-end   |  |  |  | | --- | --- | --- | |  |  |  | | 1 | 2 | 3 | | narrow | medium | broad | | | | |  | | --- | | Ad. 63: Time of beginning of flowering  Time of beginning of flowering is reached when 10% of flowers are open. | | | |  | | --- | | Ad. 64: Time of beginning of fruit ripening  Time of beginning of fruit ripening is reached when 10% of fruits have eating maturity. | | |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | 9. | Literature | | |  | | |

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| --- | --- | --- |
| |  |  | | --- | --- | | 10. | Technical Questionnaire | |
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| |  |  |  | | --- | --- | --- | | 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 | | | | |  |  |  |  |  | |  | |  | | --- | | 1.1.1 | | Botanical name | |  | | --- | | *Prunus salicina* Lindl. | | |  | | --- | | [  ] | | |  |  |  |  |  | |  | |  | | --- | | 1.1.2 | | Common name | |  | | --- | | Japanese plum | |  | |  |  |  | |  | | --- | |  | |  | |  |  |  |  |  | |  | |  | | --- | | 1.2.1 | | Botanical name | |  | | --- | | hybrids between *Prunus Salicina* and *Prunus Armeniaca* | | |  | | --- | | [  ] | | |  |  |  |  |  | |  | |  | | --- | | 1.2.2 | | Common name | |  | | --- | | Plumcot | |  | |  |  |  |  |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | 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 | | |  | | --- | |  | | [ ] | | |  | | --- | |  | | |  | | --- | |  | |  | |  |  | | |  |  | | | |  | | --- | | 4.1.5 | | Other (Please provide details) | [ ] | |  |  | | |  |  | | | | | | |

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| |  |  |  | | --- | --- | --- | |  |  |  | |  | 4.2 | Method of propagating the variety | |  | |  |  |  | | --- | --- | --- | | |  | | --- | | 4.2.1 | | |  | | --- | | Vegetative propagation | |  | | |  | | --- | | (a) | | |  | | --- | | Cuttings | | [ ] | | |  | | --- | | (b) | | |  | | --- | | *In vitro* propagation | | [ ] | | |  | | --- | | (c) | | |  | | --- | | Budding or grafting | | [ ] | | |  | | --- | | (d) | | |  | | --- | | Other (state method) | | [ ] | |  |  |  | |  |  |  | |  |  |  | | |  | | --- | | 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 |
| --- | --- | --- | --- |
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| |  | | --- | | **5.1** |  |  | | --- | | **(2)** | | |  | | --- | | **Tree: vigor** | |  |  |
|  | |  | | --- | | very weak | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very weak to weak | | |  | | --- | | ZAI122bisp | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | weak | | |  | | --- | | Satsuma, Suplumtwelve | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | weak to medium | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Autumn Giant, Black Diamond, Obilnaya | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to strong | | |  | | --- | | Gold Ball | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | strong | | |  | | --- | | Royal Diamond, Taiyou, Yummygiant | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | strong to very strong | | |  | | --- | | Methley | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very strong | | |  | | --- | |  | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.2** |  |  | | --- | | **(5)** | | |  | | --- | | **Spur: length** | |  |  |
|  | |  | | --- | | very short | | |  | | --- | | Laroda, Sordum | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | short | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Frontier | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | long | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | very long | | |  | | --- | | October Purple | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.3** |  |  | | --- | | **(12)** | | |  | | --- | | **Leaf blade: shape** | |  |  |
|  | |  | | --- | | ovate | | |  | | --- | | Flavorella | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | elliptic | | |  | | --- | | October Purple, Suplumtwelve, Syokou, Taiyou | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | obovate | | |  | | --- | | Kanro, Kelsey, Pioneer, Suplumtwenty | | |  | | --- | | 3 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.4** |  |  | | --- | | **(14)** | | |  | | --- | | **Leaf blade: angle of apex (excluding tip)** | |  |  |
|  | |  | | --- | | acute | | |  | | --- | | Friandise, Golden Plumza, Taiyou | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | right angled | | |  | | --- | | Gold Ball, Ozark Premier, Satsuma, Suplumtwenty | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | obtuse | | |  | | --- | | Anne Gold, Formosa, Methley | | |  | | --- | | 3 [   ] | |
|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| |  | | --- | | **5.5** |  |  | | --- | | **(21)** | | |  | | --- | | **Flower: diameter** | |  |  |
|  | |  | | --- | | very small | | |  | | --- | | Lamoon Plum | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | small | | |  | | --- | | Nubiana, Suplumtwelve | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Crimson Glo, October Purple, Shiro, Taiyou | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | large | | |  | | --- | | Kiyou, Methley, Zaiterla | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | very large | | |  | | --- | | ZAI122bisp | | |  | | --- | | 5 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.6** |  |  | | --- | | **(29)** | | |  | | --- | | **Fruit: size** | |  |  |
|  | |  | | --- | | very small | | |  | | --- | | Methley | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very small to small | | |  | | --- | | Golden Japan | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | small | | |  | | --- | | Allo, Eldorado, ZAI122bisp | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | small to medium | | |  | | --- | | Suplumtwentytwo | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Shiro, Zaiterla | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to large | | |  | | --- | | Blackcot, Crimson Glo | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | large | | |  | | --- | | Angeleno, Friar, Ozark Premier, Taiyou | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | large to very large | | |  | | --- | | Sun Kiss, Yummygiant | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very large | | |  | | --- | | Anne Gold, Lamoon Plum, Songold | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.7** |  |  | | --- | | **(34)** | | |  | | --- | | **Fruit: shape in lateral view** | |  |  |
|  | |  | | --- | | oblong | | |  | | --- | | Reubennel, ZAI048ISP | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | elliptic | | |  | | --- | | October Sun, Ozark Premier, Taiyou | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | circular | | |  | | --- | | Golden Japan, Red Beauty, Shiro | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | oblate | | |  | | --- | | Friar, Suplumtwenty | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | cordate | | |  | | --- | | Burbank, Hengpral, Morettini 355 | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | obovate | | |  | | --- | |  | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | obcordate | | |  | | --- | |  | | |  | | --- | | 7 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.8** |  |  | | --- | | **(40)** | | |  | | --- | | **Fruit: pubescence** | |  |  |
|  | |  | | --- | | absent | | |  | | --- | | Golden Japan, Methley, Soryana | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | present | | |  | | --- | | Blackcot, ZAI122bisp, Zaiterla | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.9** |  |  | | --- | | **(43)** | | |  | | --- | | **Fruit: ground color of skin** | |  |  |
|  | |  | | --- | | not visible | | |  | | --- | | Angeleno, Blackred V | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | | Gaviota, Santa Rosa | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | yellowish green | | |  | | --- | | Formosa, Ozark Premier, Songold, Taiyou | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | | Golden Plumza, Shiro, Sun Kiss | | |  | | --- | | 4 [   ] | |
|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
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| |  | | --- | | **5.10** |  |  | | --- | | **(44)** | | |  | | --- | | **Fruit: hue of over color** | |  |  |
|  | |  | | --- | | none | | |  | | --- | | Golden Japan | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | orange yellow | | |  | | --- | | Zairobe | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium red | | |  | | --- | | Red Beauty, Soryana | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | dark red | | |  | | --- | | Formosa, Starking Delicious, Taiyou | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | purple | | |  | | --- | | Karari, Morettini 355, Yummygiant | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | dark blue | | |  | | --- | | Laroda, Suplumtwenty | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | black | | |  | | --- | | Angeleno, Blackred V, Blackred XII | | |  | | --- | | 7 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.11** |  |  | | --- | | **(45)** | | |  | | --- | | **Fruit: relative area of over color** | |  |  |
|  | |  | | --- | | absent or very small | | |  | | --- | | Green Sun, Shiro, Sun Kiss | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very small to small | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | small | | |  | | --- | | Anne Gold, Bragialla | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | small to medium | | |  | | --- | | Zaipubo | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Fortune | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to large | | |  | | --- | | Soryana | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | large | | |  | | --- | | Burbank, Taiyou | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | large to very large | | |  | | --- | | Plumred XI | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very large or whole surface | | |  | | --- | | Black Diamond, Friar, Suplumeleven | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.12** |  |  | | --- | | **(49)** | | |  | | --- | | **Fruit: color of flesh** | |  |  |
|  | |  | | --- | | whitish | | |  | | --- | | Plumcandy X, Taiyou | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | green | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | yellowish green | | |  | | --- | | Anne Gold, Shiro | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | yellow | | |  | | --- | | Angeleno, Golden Japan, Reubennel | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | orange | | |  | | --- | | Black Amber, Sun Gold, Zaiterla | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium red | | |  | | --- | | Florence, Satsuma, Sordum | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | dark red | | |  | | --- | | Beauty, Friandise, Hawera, Karari, Stark Delicious | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | purplish | | |  | | --- | | Blackred VI, Plumred VII, Sangue di Drago | | |  | | --- | | 8 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.13** |  |  | | --- | | **(56)** | | |  | | --- | | **Stone: size in relation to fruit** | |  |  |
|  | |  | | --- | | very small | | |  | | --- | |  | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | small | | |  | | --- | |  | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | |  | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | large | | |  | | --- | |  | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | very large | | |  | | --- | |  | | |  | | --- | | 5 [   ] | |
|  |  |  |  |

|  | Characteristics | Example Varieties | Note |
| --- | --- | --- | --- |
|  |  |  |  |
| |  | | --- | | **5.14** |  |  | | --- | | **(63)** | | |  | | --- | | **Time of beginning of flowering** | |  |  |
|  | |  | | --- | | very early | | |  | | --- | | Blackred VI, Durado, Karari | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very early to early | | |  | | --- | | African Rose, Blackred I, Plumred VII, Red Beauty | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | early | | |  | | --- | | Fortune, Grenadine, Mariposa, Plumsweet V, Taiyou | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | early to medium | | |  | | --- | | Crimson Glo, Plumsweet IV, Red Majesty | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Green Sun, Nubiana, Redyummy, Suplumthirtyone | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to late | | |  | | --- | | Friandise, Friar, Zairobe | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | late | | |  | | --- | | Gaviota, Golden Japan, Gradiplum, Ozark Premier, Shiro | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | late to very late | | |  | | --- | | Anne Gold, Burbank, Zaipubo | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very late | | |  | | --- | | Angeleno, Ruby Star, Simka | | |  | | --- | | 9 [   ] | |
|  |  |  |  |
|  |  |  |  |
| |  | | --- | | **5.15** |  |  | | --- | | **(64)** | | |  | | --- | | **Time of beginning of fruit ripening** | |  |  |
|  | |  | | --- | | very early | | |  | | --- | | Blackred I, Durado, Red Beauty, Red Noble, Zaiterla | | |  | | --- | | 1 [   ] | |
|  | |  | | --- | | very early to early | | |  | | --- | | African Rose, Methley, Yummygem | | |  | | --- | | 2 [   ] | |
|  | |  | | --- | | early | | |  | | --- | | Golden Japan, Mariposa, Shiro, YummyBeauty | | |  | | --- | | 3 [   ] | |
|  | |  | | --- | | early to medium | | |  | | --- | | Anne Gold, Blackcot, Soryana | | |  | | --- | | 4 [   ] | |
|  | |  | | --- | | medium | | |  | | --- | | Crimson Glo, Gaviota, Suplumtwelve | | |  | | --- | | 5 [   ] | |
|  | |  | | --- | | medium to late | | |  | | --- | | Lamoon Plum, Sun Kiss | | |  | | --- | | 6 [   ] | |
|  | |  | | --- | | late | | |  | | --- | | Angeleno, Nubiana, Plumcandy X, Plumsweet IV, Taiyou, Zaiterki | | |  | | --- | | 7 [   ] | |
|  | |  | | --- | | late to very late | | |  | | --- | | Blackred XII, Florence, Ruby Star | | |  | | --- | | 8 [   ] | |
|  | |  | | --- | | very late | | |  | | --- | | Akihime, Autumn Giant, Golden King, September Yummy | | |  | | --- | | 9 [   ] | |
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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: ground color of skin* | | |  | | --- | | *Not visible* | | |  | | --- | | *Green* | | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | |  | 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 | | | | |  |  |  |  |  | | A representative color photograph of the variety displaying its main distinguishing feature(s), should accompany the Technical Questionnaire. 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 in document TGP/7 "Development of Test Guidelines", Guidance Note 35 (http://www.upov.int/tgp/en/). [The link provided may be deleted by members of the Union when developing authorities’ own test guidelines.] | | | | | |  |  |  |  |  | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 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. | | | | | |  |  |  |  |  |  | | |

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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) | 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”. | | | |  | |  |  | | | |  | | |  | | |  | | --- | | 9.3 Has the plant material to be examined been tested for the presence of virus or other pathogens? | | | |  |  |  | | --- | --- | --- | |  | Yes | [ ] | |  | (please provide details as specified by the Authority) | | |  | No | [ ] | | |  | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 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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