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| **TG/LYCIUM\_BAR(proj.4)** |
| **ORIGINAL:** English |
| **DATE:** 2024-04-20 |

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| **INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS** |
|  | Geneva  |  |
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| UPOV Code(s): LYCIU\_BAR; LYCIU\_CHI; LYCIU\_CYL; LYCIU\_DAS; LYCIU\_RUT; LYCIU\_TRU; LYCIU\_YUN |

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| *Lycium barbarum* L.;*Lycium chinense* Mill.; *Lycium cylindricum* Kuang & A. M. Lu; *Lycium dasystemum* Pojark.; *Lycium ruthenicum* Murray; *Lycium truncatum* Y. C. Wang; *Lycium yunnanense* Kuang & A. M. Lu |

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| **GUIDELINES** |
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| **FOR THE CONDUCT OF TESTS** |
|   |
| **FOR DISTINCTNESS, UNIFORMITY AND STABILITY** |

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| *prepared by experts from China* |
| *to be considered by the* |
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| --- |
| *Technical Working Party for Fruit Crops* |

 |
| *at its fifty-fifth session, to be held virtually* |
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| *from 2024-06-03 to 2024-06-06* |

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 |
| *Disclaimer: this document does not represent UPOV policies or guidance* |

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| Alternative names:\* |

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 |
| *Botanical name* | *English* | *French* | *German* | *Spanish* |
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| *Lycium barbarum* L. , *Lycium halimifolium* Mill., *Lycium vulgare* Dunal |

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| Barbary matrimony-vine, Chinese boxthorn, Chinese wolfberry, Duke of Argyll's teaplant, Duke of Argyll's teatree, Himalayan goji, Tibetan goji, goji-berry, Matrimony-vine |

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| Bocksdorn |

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| *Lycium chinense* Mill. |

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| Chinese Boxthorn, Chinese Matrimony-vine, Chinese Wolfberry, Duke of Argyle's Tea Tree, Wolfberry |

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| Lyciet de Chine |

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| Chinesischer Bocksdorn |

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| *Lycium cylindricum* Kuang & A. M. Lu |

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| *Lycium dasystemum* Pojark. |

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| *Lycium ruthenicum* Murray |

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| *Lycium truncatum* Y. C. Wang |

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| *Lycium yunnanense* Kuang & A. M. Lu |

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| 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. |
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| **ASSOCIATED DOCUMENTS** |
| These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents. |
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| 1. | Subject of these Test Guidelines |
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| 1.1 |

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| These Test Guidelines apply to all varieties of *Lycium barbarum* L., *Lycium chinense* Mill., *Lycium cylindricum* Kuang & A. M. Lu, *Lycium dasystemum* Pojark., *Lycium ruthenicum* Murray, *Lycium truncatum* Y. C. Wang and *Lycium yunnanense* Kuang & A. M. Lu. |

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| 1.2 |

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| Guidance on the use of Test Guidelines for the interspecific hybrids that are not explicitly covered by Test Guidelines is provided in document TGP/13 "Guidance for New Types and Species". |

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| 2. | Material Required |
|  |   |
| 2.1 |

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| 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. |

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| 2.2 |

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| The material is to be supplied in the form of plants. |

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| 2.3 |

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| The minimum quantity of plant material, to be supplied by the applicant, should be: |

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| vegetatively propagated varieties: 5 plants. |

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| 2.4 |

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| The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease. |

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| 2.5 |

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| 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 |
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| *3.1* | *Number of Growing Cycles* |
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| 3.1.1 |

 | The minimum duration of tests should normally be two independent growing cycles. |
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| 3.1.2 |

 | The two independent growing cycles may be observed from a single planting, examined in two separate growing cycles. |
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| 3.1.3 |

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| In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles. |

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| 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. |
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| 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* |
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 | 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. |
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| *3.4* | *Test Design* |
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| 3.4.1 |

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| Each test should be designed to result in a total of at least 5 plants. |

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| 3.4.2 |

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| 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. |

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*3.5* | *Additional Tests* |
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|  | 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. |
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| 4.1.4 |

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| Number of Plants or Parts of Plants to be Examined |

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| 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. |

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| 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 2. |

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| 4.1.5 | Method of Observation  |
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|  | 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”): |
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| 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 plantsVS: visual assessment by observation of individual plants or parts of plants |

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

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| 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. |

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|  | 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:  |
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| 4.2.2 |

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| 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. |

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| 4.2.3 |

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| 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 5 plants, no off-types are allowed. |

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| *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. |
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| 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. |

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| 5. | Grouping of Varieties and Organization of the Growing Trial |
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| 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. |
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| 5.3 | The following have been agreed as useful grouping characteristics: |
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| (a) |

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| Leaf: shape (characteristic 12) |

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| (b) |

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| Fruit: shape in lateral view (characteristic 22) |

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| (c) |

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| Fruit: color (characteristic 23) |

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| 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 |
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| *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. |

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| *6.5* | *Legend* |
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|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
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| **1** |

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| **2** |

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| **3** |

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| **4** |

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| **5** |

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| **6** |

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| **7** |

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| **Name of characteristics in English** |

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| **Nom du caractère en français** |

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| **Name des Merkmals auf Deutsch** |

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| **Nombre del carácter en español** |

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| states of expression |

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| types d’expression |

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| Ausprägungsstufen |

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| tipos de expresión |

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| 1 | Characteristic number |
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| 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 |
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| See Explanations on the Table of Characteristics in Chapter 8.2 |

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| (a)-(e) |

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| See Explanations on the Table of Characteristics in Chapter 8.1 |

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| Not applicable |

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| The species is indicated in brackets after the name of the example variety as follows:

|  |  |  |
| --- | --- | --- |
| (1) | Lycium barbarum L. | Ningqi 1 Hao |
| (1) | Lycium barbarum L. | Ningqi 2 Hao |
| (1) | Lycium barbarum L. | Ningqi 3 Hao |
| (1) | Lycium barbarum L. | Ningqi 5 Hao |
| (1) | Lycium barbarum L. | Ningqi 7 Hao |
| (1) | Lycium barbarum L. | Ningqi 8 Hao |
| (1) | Lycium barbarum L. | Ningqi 10 Hao |
| (1) | Lycium barbarum L. | Ningnongqi 1 Hao |
| (1) | Lycium barbarum L. | Ningnongqi 9 Hao |
| (1) | Lycium barbarum L. | Ningnongqi 18 Hao |
| (1) | Lycium barbarum L. | Qixin 3 Hao |
| (1) | Lycium barbarum L. | Mengqi 1 Hao |
| (1) | Lycium barbarum L. | Keqi 6081 |
| (1) | Lycium barbarum L. | Keqi 6082 |
| (1) | Lycium barbarum L. | Jingqi 4 Hao |
| (2) | Lycium barbarum L. var. auyanticarpum K. F. Ching | Ningnongqi 4 Hao |
| (2) | Lycium barbarum L. var. auyanticarpum K. F. Ching | Ningnongqi 5 Hao |
| (2) | Lycium barbarum L. var. auyanticarpum K. F. Ching | Ningnongqi 16 Hao |
| (2) | Lycium barbarum L. var. auyanticarpum K. F. Ching | Ningnongqi 20 Hao |
| (3) | Lycium ruthenicum Murray. | Jin mo zhu |
| (4) | Lycium chinense Mill. | Tianjing 3 Hao |

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| 7. | Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres |
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|  |  | English | français | deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | **(\*)** | **QN** | **VG** | **(+)** | **(a)** |  |
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| **Plant: growth habit** |

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 |  |  |
|  |  | upright |  |  |  |  | 1 |
|  |  | upright to spreading |  |  |  |  | 2 |
|  |  | spreading |  |  |  |  | 3 |
| **2.** |  | **QN** | **VG** | **(+)** | **(a)** |  |
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| **Plant: number of basal shoots** |

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|  |  | few |  |  |  | NQ1 | 1 |
|  |  | few to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  | FPW07 | 3 |
|  |  | medium to many |  |  |  |  | 4 |
|  |  | many |  |  |  | Instant Success | 5 |
| **3.** | **(\*)** | **QN** | **MS/VG** | **(+)** |  |  |
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| **One-year-old-shoot: length** |

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|  |  | short |  |  |  | Ningnongqi 5 Hao(2) | 1 |
|  |  | short to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  | Ningnongqi 20 Hao(2) | 3 |
|  |  | medium to long |  |  |  |  | 4 |
|  |  | long |  |  |  | Ningqi 10 Hao(1) | 5 |
| **4.** |  | **QN** | **MS/VG** | **(+)** | **(b)** |  |
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| **One-year-old shoot: thickness** |

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|  |  | thin |  |  |  |  | 1 |
|  |  | medium |  |  |  | Ningqi 1 Hao(1) | 2 |
|  |  | thick |  |  |  |  | 3 |
| **5.** | **(\*)** | **QN** | **MS/VG** |  | **(b)** |  |
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| **One-year-old-shoot: length of internode** |

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|  |  | short |  |  |  | Jin mo zhu(3) | 1 |
|  |  | medium |  |  |  | Ningnongqi 4 Hao(2) | 2 |
|  |  | long |  |  |  | Ningqi 2 Hao(1) | 3 |
| **6.** | **(\*)** | **QL** | **VG** |  | **(b)** |  |
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| **One-year-old shoot: presence of spines** |

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|  |  | absent |  |  |  |  | 1 |
|  |  | present |  |  |  |  | 9 |
| **7.** |  | **QN** | **MS/VG** |  | **(b)** |  |
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| **Only varieties with One-year-old shoot: presence of spines: present: one-year-old shoot: length of spines** |

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|  |  | short |  |  |  |  | 1 |
|  |  | medium |  |  |  | Ningnongqi 16 Hao(1) | 2 |
|  |  | long |  |  |  |  | 3 |
| **8.** | **(\*)** | **QN** | **VG** | **(+)** |  |  |
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| **Previous year's shoot: density of fruits** |

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|  |  | sparse |  |  |  |  | 1 |
|  |  | sparse to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | medium to dense |  |  |  |  | 4 |
|  |  | dense |  |  |  |  | 5 |
| **9.** |  | **PQ** | **VG** | **(+)** |  |  |
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| **Bark: color** |

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 |  |  |
|  |  | yellow brown |  |  |  | Ningqi 7 Hao(1) | 1 |
|  |  | light brown |  |  |  | Ningqi 5 Hao(1) | 2 |
|  |  | dark brown |  |  |  | Ningqi 1 Hao(1) | 3 |
|  |  | grey brown |  |  |  | Ningnongqi 9 Hao(1) | 4 |
| **10** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(c)** |  |
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| **Leaf: length** |

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|  |  | short |  |  |  | Ningnongqi 5 Hao(2) | 1 |
|  |  | short to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  | Ningqi 5 Hao(1) | 3 |
|  |  | medium to long |  |  |  |  | 4 |
|  |  | long |  |  |  | Ningnongqi 20 Hao(2) | 5 |
| **11** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(c)** |  |
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| **Leaf: width** |

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|  |  | narrow |  |  |  | Jin mo zhu(3), Ningnongqi 5 Hao(2) | 1 |
|  |  | narrow to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  | Ningqi 3 Hao(1) | 3 |
|  |  | medium to broad |  |  |  |  | 4 |
|  |  | broad |  |  |  | Ningnongqi 4 Hao(2) | 5 |
| **12** | **(\*)** | **PQ** | **VG** | **(+)** | **(c)** |  |
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| **Leaf: shape** |

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|  |  | linear |  |  |  |  | 1 |
|  |  | lanceolate |  |  |  | Ningqi 7 Hao(1) | 2 |
|  |  | ovate |  |  |  |  | 3 |
| **13** |  | **QN** | **MS/VG** |  | **(c)** |  |
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| **Leaf: ratio length/width** |

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|  |  | very low |  |  |  | Tianjing 3 Hao(4) | 1 |
|  |  | very low to low |  |  |  |  | 2 |
|  |  | low |  |  |  |  | 3 |
|  |  | low to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Ningnongqi 18 Hao(1) | 5 |
|  |  | medium to high |  |  |  |  | 6 |
|  |  | high |  |  |  |  | 7 |
|  |  | high to very high |  |  |  |  | 8 |
|  |  | very high |  |  |  | Ningqi 8 Hao(1) | 9 |
| **14** |  | **PQ** | **VG** |  | **(c)** |  |
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| **Leaf: color on upper side** |

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|  |  | grey green |  |  |  | Jin mo zhu(3) | 1 |
|  |  | medium green |  |  |  | Ningqi 1 Hao(1) | 2 |
|  |  | dark green |  |  |  |  | 3 |
|  |  | yellow green |  |  |  |  | 4 |
| **15** |  | **PQ** | **VG** | **(+)** | **(c)** |  |
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| **Leaf: shape of apex** |

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|  |  | narrow acute |  |  |  | Ningqi 5 Hao(1) | 1 |
|  |  | medium acute |  |  |  |  | 2 |
|  |  | obtuse |  |  |  |  | 3 |
|  |  | rounded |  |  |  |  | 4 |
| **16** |  | **QN** | **MS/VG** | **(+)** | **(d)** |  |
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| **Corolla: diameter** |

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|  |  | small |  |  |  | Mengqi 1 Hao(1) | 1 |
|  |  | small to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  |  | 3 |
|  |  | medium to large |  |  |  | Jingqi 4 Hao(1) | 4 |
|  |  | large |  |  |  | Ningnongqi 20 Hao(2) | 5 |
| **17** |  | **QL** | **VG** |  | **(d)** |  |
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| **Corolla: color of lobe** |

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|  |  | white |  |  |  |  | 1 |
|  |  | purple |  |  |  |  | 2 |
| **18** |  | **QN** | **MS/VG** | **(+)** | **(d)** |  |
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| **Corolla: length of tube** |

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|  |  | short |  |  |  | Ningqi 7 Hao(1) | 1 |
|  |  | medium |  |  |  |  | 2 |
|  |  | long |  |  |  | Keqi 6082(1) | 3 |
| **19** |  | **QN** | **VG** | **(+)** | **(e)** |  |
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| **Calyx: attachment** |

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 |  |  |
|  |  | mostly erect |  |  |  |  | 1 |
|  |  | equally erect and semi-erect |  |  |  |  | 2 |
|  |  | mostly semi-erect |  |  |  |  | 3 |
| **20** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(e)** |  |
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| **Fruit: length** |

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|  |  | very short |  |  |  | Mengqi 1 Hao(1) | 1 |
|  |  | very short to short |  |  |  |  | 2 |
|  |  | short |  |  |  | Ningnongqi 4 Hao(2) | 3 |
|  |  | short to medium |  |  |  |  | 4 |
|  |  | medium |  |  |  | Ningqi 1 Hao(1) | 5 |
|  |  | medium to long |  |  |  |  | 6 |
|  |  | long |  |  |  | Ningnongqi 9 Hao(1) | 7 |
|  |  | long to very long |  |  |  |  | 8 |
|  |  | very long |  |  |  | Ningqi 8 Hao(1) | 9 |
| **21** | **(\*)** | **QN** | **MS/VG** | **(+)** | **(e)** |  |
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| **Fruit: width** |

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|  |  | narrow |  |  |  | Mengqi 1 Hao(1) | 1 |
|  |  | medium |  |  |  | Ningqi 7 Hao(1) | 2 |
|  |  | broad |  |  |  | Ningnongqi 18 Hao(1) | 3 |
| **22** | **(\*)** | **PQ** | **VG** | **(+)** | **(e)** |  |
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| **Fruit: shape in lateral view** |

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 |  |  |
|  |  | ovate |  |  |  |  | 1 |
|  |  | oblate |  |  |  |  | 2 |
|  |  | circular |  |  |  |  | 3 |
|  |  | rhombic |  |  |  |  | 4 |
|  |  | elliptic |  |  |  |  | 5 |
|  |  | obovate |  |  |  |  | 6 |
| **23** | **(\*)** | **PQ** | **VG** |  | **(e)** |  |
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| **Fruit: color** |

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|  |  | whitish |  |  |  |  | 1 |
|  |  | yellow |  |  |  |  | 2 |
|  |  | yellow orange |  |  |  |  | 3 |
|  |  | orange |  |  |  |  | 4 |
|  |  | orange red |  |  |  |  | 5 |
|  |  | red |  |  |  |  | 6 |
|  |  | purple red |  |  |  | Qixin 3 Hao(1) | 7 |
|  |  | dark purple |  |  |  |  | 8 |
| **24** |  | **QN** | **VG** | **(+)** | **(e)** |  |
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| **Fruit: length of stalk** |

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 |  |  |
|  |  | short |  |  |  | Mengqi 1 Hao(1) | 1 |
|  |  | short to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  | Ningqi 7 Hao(1) | 3 |
|  |  | medium to long |  |  |  |  | 4 |
|  |  | long |  |  |  | Keqi 6081(1) | 5 |
| **25** |  | **PQ** | **VG** | **(+)** | **(e)** |  |
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| **Fruit: color of stalk** |

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|  |  | medium green |  |  |  |  | 1 |
|  |  | bluish green |  |  |  |  | 2 |
|  |  | green and purple |  |  |  |  | 3 |
|  |  | blue |  |  |  |  | 4 |
| **26** | **(\*)** | **QN** | **MG/VG** | **(+)** |  |  |
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| **Time of beginning of fruit maturity** |

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|  |  | early |  |  |  | Ningnongqi 18 Hao(1) | 1 |
|  |  | early to medium |  |  |  |  | 2 |
|  |  | medium |  |  |  | Ningqi 1 Hao(1) | 3 |
|  |  | medium to late |  |  |  |  | 4 |
|  |  | late |  |  |  | Ningnongqi 4 Hao(2) | 5 |

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| 8. | Explanations on the Table of Characteristics |
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| *8.1* | *Explanations covering several characteristics* |
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|  | Characteristics containing the following key in the Table of Characteristics should be examined as indicated below: |
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| (a) |

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| Observations should be made on dormant plants. |

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| (b) |

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| Observations should be made on the middle third of one-year-old fruiting shoot in the dormant period. |

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| (c) |

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| Observations should be made on the fully developed leaves taken from the middle third of a current-year's fruiting shoot. |

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|   |  |  |  |
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| --- |
| (d) |

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| Observations should be made on the fully open flowers taken from the middle third of a previous year's fruiting shoot. |

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| (e) |

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| Observations should be made on the fully ripened fruits taken from the middle third of a previous year's fruiting shoot, when the fruits have ripened in summer. |

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| *8.2* |

 | *Explanations for individual characteristics* |
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| Ad. 1: Plant: growth habit |

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| Ad. 2: Plant: number of basal shoots |

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| Ad. 3: One-year-old-shoot: lengthObservations should be made on the whole one-year-old fruiting shoots in the dormant period. |

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| Ad. 4: One-year-old shoot: thicknessObservations should be made at the middle third of one-year-old shoots in the dormant period. |

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| Ad. 8: Previous year's shoot: density of fruitsObservations should be made on the middle third of a previous year's fruiting shoot when the fruits have ripened in summer. |

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| Ad. 9: Bark: colorObservations should be made at the middle third of three-year-old shoots in the dormant period. |

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| Ad. 10: Leaf: lengthA=leaf: length B=leaf: width   |

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| Ad. 11: Leaf: widthSee Ad.10. |

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| Ad. 12: Leaf: shape |

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| Ad. 15: Leaf: shape of apex |

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| Ad. 16: Corolla: diameter |

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| Ad. 18: Corolla: length of tube  |

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| Ad. 19: Calyx: attachment  |

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| Ad. 20: Fruit: lengthA=fruit: lengthB=fruit: width                           C=fruit: length of stalk                          |

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| Ad. 21: Fruit: widthSee Ad. 20. |

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| Ad. 22: Fruit: shape in lateral view |

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| Ad. 24: Fruit: length of stalkSee Ad. 20. |

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| Ad. 25: Fruit: color of stalk Observations should be made including the calyx. |

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| Ad. 26: Time of beginning of fruit maturityThe presence of mature fruits on 10% of the fruiting shoots of the whole plant in the fruit ripening period is considered as the beginning of fruit maturity. |

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| 9. | Literature |

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| --- |
| Zhi-gang S., Hui-ying D., Huiqin M., 2012: Description specification and data standard of germplasm resources for *Lycium* L.  China forestry publishing house. Beijing, CN |

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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 QUESTIONNAIREto be completed in connection with an application for plant breeders' rights |

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| --- | --- | --- | --- | --- |
|  |  |   |  |  |
| 1. | Subject of the Technical Questionnaire |
|  |  |  |   |  |
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|  |
| --- |
| 1.1.1 |

 | Botanical name |

|  |
| --- |
| *Lycium barbarum* L. |

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| --- |
| [  ] |

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|  |   |  |   |  |
|  |

|  |
| --- |
| 1.1.2 |

 | Common name |

|  |
| --- |
| Barbary matrimony-vine, Chinese boxthorn, Chinese wolfberry, Duke of Argyll's teaplant, Duke of Argyll's teatree, Himalayan goji, Tibetan goji, goji-berry, Matrimony-vine |

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| --- |
| 1.2.1 |

 | Botanical name |

|  |
| --- |
| *Lycium chinense* Mill. |

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| [  ] |

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| --- |
| 1.2.2 |

 | Common name |

|  |
| --- |
| Chinese Boxthorn, Chinese Matrimony-vine, Chinese Wolfberry, Duke of Argyle's Tea Tree, Wolfberry |

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|  |  |  |   |  |
|  |

|  |
| --- |
| 1.3.1 |

 | Botanical name |

|  |
| --- |
| *Lycium cylindricum* Kuang & A. M. Lu |

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| [  ] |

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| 1.3.2 |

 | Common name |

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| --- |
| 1.4.1 |

 | Botanical name |

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| --- |
| *Lycium dasystemum* Pojark. |

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| [  ] |

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| 1.4.2 |

 | Common name |

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| --- |
| 1.5.1 |

 | Botanical name |

|  |
| --- |
| *Lycium ruthenicum* Murray |

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| [  ] |

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| 1.5.2 |

 | Common name |

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| 1.6.1 |

 | Botanical name |

|  |
| --- |
| *Lycium truncatum* Y. C. Wang |

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| [  ] |

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| 1.6.2 |

 | Common name |

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| --- |
| 1.7.1 |

 | Botanical name |

|  |
| --- |
| *Lycium yunnanense* Kuang & A. M. Lu |

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| 1.7.2 |

 | Common name |

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| --- |
| 1.8.1 |

 | Botanical name |

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| --- |
| Other species, please specify？ |

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| [  ] |

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| 1.8.2 |

 | Common name |

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|  |  |
| --- | --- |
| 2. | Applicant |
|  |  |  |   |  |
|  | Name |  |  |
|  |  |  |   |  |
|  | Address |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |   |  |
|  | Telephone No. |  |  |
|  |  |  |   |  |
|  | Fax No. |  |  |
|  |  |  |   |  |
|  | E-mail address |  |  |
|  |  |  |   |  |
|  | Breeder (if different from |  |  |
|  | applicant) |  |  |
|  |  |  |   |  |

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| --- | --- | --- | --- | --- |
|  |  |  |   |  |
| 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: |
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| --- |
| #4. |

 | Information on the breeding scheme and propagation of the variety |
|  |  |   |
|  | 4.1 | Breeding scheme |
|  | Variety resulting from:  |
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| 4.1.1 |

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| --- |
| Crossing  |

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|  |
| --- |
| (a) |

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| --- |
| controlled cross  |

 | [ ] |
|  |

|  |
| --- |
| (please state parent variety)(…………………..……………..…)                          x        (……………..…………………..…)female parent                                                                     male parent |

 |
|

|  |
| --- |
| (b) |

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|  |
| --- |
| partially known cross  |

 | [ ] |
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|  |
| --- |
| (please state known parent variety(ies))(…………………..……………..…)                          x        (……………..…………………..…)female parent                                                                     male parent |

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| --- |
| (c) |

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| --- |
| unknown cross  |

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| 4.1.2 |

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| Mutation (please state parent variety) |

 | [ ] |
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| 4.1.3 |

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| Discovery and development (please state where and when discovered and how developed) |

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| 4.1.4 |

 | Other(Please provide details) | [ ] |
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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

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|  | 4.2 | Method of propagating the variety |
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| 4.2.1 |

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| Vegetative propagation |

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| --- |
| (a) |

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| --- |
| Cuttings |

 | [ ] |
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|  |
| --- |
| (b) |

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| --- |
| *In vitro* propagation |

 | [ ] |
|

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| --- |
| (c) |

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| --- |
| Budding or grafting |

 | [ ] |
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|  |
| --- |
| (d) |

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| --- |
| Other (state method) |

 | [ ] |
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| 4.2.3 |

 | Other(Please provide details) | [ ] |
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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

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| --- | --- |
| 5. | Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds). |
|  |   |  |  |

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|  | Characteristics | Example Varieties | Note |
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| **5.1** |

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| **(1)** |

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| **Plant: growth habit** |

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| --- |
| upright |

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| 1 [   ] |

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| upright to spreading |

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| spreading |

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| **5.2** |

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| **(3)** |

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| **One-year-old-shoot: length** |

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|  |
| --- |
| short |

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|  |
| --- |
| Ningnongqi 5 Hao(2) |

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| 1 [   ] |

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| --- |
| short to medium |

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| 2 [   ] |

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| medium |

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| Ningnongqi 20 Hao(2) |

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| 3 [   ] |

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| medium to long |

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| 4 [   ] |

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| long |

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| Ningqi 10 Hao(1) |

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| **5.3** |

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| **(5)** |

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| **One-year-old-shoot: length of internode** |

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| --- |
| short |

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| --- |
| Jin mo zhu(3) |

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| 1 [   ] |

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| medium |

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| --- |
| Ningnongqi 4 Hao(2) |

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| long |

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| Ningqi 2 Hao(1) |

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| 3 [   ] |

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| **5.4** |

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| **(6)** |

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| **One-year-old shoot: presence of spines** |

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| absent |

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| present |

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| **5.5** |

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| **(8)** |

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| **Previous year's shoot: density of fruits** |

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| sparse |

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| 1 [   ] |

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| sparse to medium |

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| medium |

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| 3 [   ] |

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| --- |
| medium to dense |

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| 4 [   ] |

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| dense |

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| **5.6** |

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| **(10)** |

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| **Leaf: length** |

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| short |

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| Ningnongqi 5 Hao(2) |

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| short to medium |

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| medium |

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| Ningqi 5 Hao(1) |

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| 3 [   ] |

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| medium to long |

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| long |

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| Ningnongqi 20 Hao(2) |

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| **5.7** |

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| **(11)** |

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| **Leaf: width** |

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| --- |
| narrow |

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| --- |
| Jin mo zhu(3), Ningnongqi 5 Hao(2) |

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| 1 [   ] |

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| --- |
| narrow to medium |

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| medium |

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| Ningqi 3 Hao(1) |

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| 3 [   ] |

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| medium to broad |

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| 4 [   ] |

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| --- |
| broad |

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| Ningnongqi 4 Hao(2) |

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| **5.8** |

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| **(12)** |

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| **Leaf: shape** |

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| linear |

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| lanceolate |

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| Ningqi 7 Hao(1) |

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| ovate |

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| **5.9** |

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| **(20)** |

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| **Fruit: length** |

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| --- |
| very short |

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| --- |
| Mengqi 1 Hao(1) |

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| 1 [   ] |

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| very short to short |

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| short |

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| Ningnongqi 4 Hao(2) |

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| 3 [   ] |

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| --- |
| short to medium |

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| 4 [   ] |

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| --- |
| medium |

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| Ningqi 1 Hao(1) |

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| 5 [   ] |

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| --- |
| medium to long |

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| 6 [   ] |

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| --- |
| long |

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| Ningnongqi 9 Hao(1) |

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| 7 [   ] |

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| --- |
| long to very long |

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| 8 [   ] |

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| --- |
| very long |

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| Ningqi 8 Hao(1) |

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| 9 [   ] |

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| **5.10** |

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| **(21)** |

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| **Fruit: width** |

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| --- |
| narrow |

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| --- |
| Mengqi 1 Hao(1) |

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| 1 [   ] |

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|  |

|  |
| --- |
| medium |

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| Ningqi 7 Hao(1) |

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| 2 [   ] |

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|  |

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| --- |
| broad |

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| Ningnongqi 18 Hao(1) |

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| 3 [   ] |

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| **5.11** |

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| --- |
| **(22)** |

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| **Fruit: shape in lateral view** |

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|  |
| --- |
| ovate |

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| 1 [   ] |

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| --- |
| oblate |

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| --- |
| 2 [   ] |

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| --- |
| circular |

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| 3 [   ] |

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| --- |
| rhombic |

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| 4 [   ] |

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| elliptic |

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| 5 [   ] |

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| --- |
| obovate |

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| 6 [   ] |

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| **5.12** |

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| **(23)** |

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| **Fruit: color** |

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|  |

|  |
| --- |
| whitish |

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| 1 [   ] |

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| --- |
| yellow |

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| --- |
| 2 [   ] |

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| --- |
| yellow orange |

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| --- |
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| --- |
| 3 [   ] |

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| --- |
| orange |

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| --- |
| 4 [   ] |

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| --- |
| orange red |

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| 5 [   ] |

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| --- |
| red |

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| 6 [   ] |

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|  |
| --- |
| purple red |

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| --- |
| Qixin 3 Hao(1) |

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| 7 [   ] |

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|  |

|  |
| --- |
| dark purple |

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| 8 [   ] |

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| **5.13** |

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| **(26)** |

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| **Time of beginning of fruit maturity** |

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|  |
| --- |
| early |

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| --- |
| Ningnongqi 18 Hao(1) |

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| --- |
| 1 [   ] |

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| --- |
| early to medium |

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| --- |
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| --- |
| 2 [   ] |

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| --- |
| medium |

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| --- |
| Ningqi 1 Hao(1) |

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| --- |
| 3 [   ] |

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| --- |
| medium to late |

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| 4 [   ] |

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| --- |
| late |

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| Ningnongqi 4 Hao(2) |

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| 5 [   ] |

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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

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| --- | --- |
| 6. | Similar varieties and differences from these varieties |
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| --- |
| *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.*   |

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| Denomination(s) of variety(ies) similar to your candidate variety |

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| Characteristic(s) in which your candidate variety differs from the similar variety(ies) |

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| --- |
| Describe the expression of the characteristic(s) for the **similar** variety(ies) |

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| Describe the expression of the characteristic(s) for **your** candidate variety |

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| *Example* |

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| --- |
| *One-year-old shoot: presence of spines* |

 |

|  |
| --- |
| *present* |

 |

|  |
| --- |
| *absent* |

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|  | 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.] |

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| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |

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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. |
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| 9. Information on plant material to be examined or submitted for examination |

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|   |
| 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. |
|   |
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| 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: |

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | (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”. |  |
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| 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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| [End of document] |