These Test Guidelines have been superseded by a later version. The latest adopted version of Test Guidelines can be found at http://www.upov.int/test_guidelines/en/list.jsp

Ces principes directeurs d’examen ont été remplacés par une version ultérieure. La version adoptée la plus récente des principes directeurs d’examen figure à l’adresse suivante : http://www.upov.int/test_guidelines/fr/list.jsp


Las presentes directrices de examen han sido reemplazadas por una versión posterior. La versión de las directrices de examen de más reciente aprobación está disponible en http://www.upov.int/test_guidelines/es/list.jsp.
HYDRANGEA

UPOV Code: HYDRN

Hydrangea L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:

<table>
<thead>
<tr>
<th>Botanical name</th>
<th>English</th>
<th>French</th>
<th>German</th>
<th>Spanish</th>
</tr>
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<td>Hydrangea L.</td>
<td>Hydrangea</td>
<td>Hortensia</td>
<td>Hortensie</td>
<td>Hortensia, Hidrangea</td>
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</tbody>
</table>

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]
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</table>
1. **Subject of these Test Guidelines**

These Test Guidelines apply to all varieties of *Hydrangea* L.

2. **Material Required**

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of rooted cuttings, taken from a mother plant grown in a medium that will not specifically affect the sepal color, capable of flowering and expressing all relevant characteristics of the variety during the first growing cycle.

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

8 plants.

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

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. **Method of Examination**

3.1 **Number of Growing Cycles**

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

3.2 **Testing Place**

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 “Examining Distinctness”.

3.3 **Conditions for Conducting the Examination**

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. In particular, the plants should not be grown in a medium that will specifically affect the sepal color.

3.4 **Test Design**

3.4.1 Each test should be designed to result in a total of at least 8 plants.

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.
3.5 **Number of Plants / Parts of Plants to be Examined**

Unless otherwise indicated, all observations should be made on 8 plants or parts taken from each of 8 plants.

3.6 **Additional Tests**

Additional tests, for examining relevant characteristics, may be established.

4. **Assessment of Distinctness, Uniformity and Stability**

4.1 **Distinctness**

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 **Uniformity**

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 8 plants, 1 off-type is allowed.
4.3 Stability

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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) Stem: color (characteristic 5)
b) Leaf blade: variegation (characteristic 15)
c) Leaf blade: main color (characteristic 16)
d) Inflorescence: shape (characteristic 20)
e) Inflorescence: conspicuousness of fertile flowers (characteristic 23)
f) Sterile flower: type (characteristic 26)
g) Sterile flower: main color of sepal (characteristic 29) with the following groups:
   Gr.1: white
   Gr.2: light pink
   Gr.3: dark pink
   Gr.4: purple pink
   Gr.5: red

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

6.1 Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.
6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 States of Expression and Corresponding Notes

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 Example Varieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 Legend

(*) Asterisked characteristic – see Chapter 6.1.2
QL: Qualitative characteristic – see Chapter 6.3
QN: Quantitative characteristic – see Chapter 6.3
PQ: Pseudo-qualitative characteristic – see Chapter 6.3
(+) See Explanations on the Table of Characteristics in Chapter 8.
### 7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

<table>
<thead>
<tr>
<th></th>
<th>English</th>
<th>français</th>
<th>deutsch</th>
<th>español</th>
<th>Example Varieties/Exemples/Beispielssorten/Variedades ejemplo</th>
<th>Note/Nota</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. (*)</td>
<td><strong>Plant: type</strong></td>
<td><strong>Plante : type</strong></td>
<td><strong>Pflanze: Typ</strong></td>
<td><strong>Planta: tipo</strong></td>
<td></td>
<td></td>
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<tr>
<td>QL</td>
<td>climbing</td>
<td>grimpant</td>
<td>kletternd</td>
<td>trepadora</td>
<td>Nana Yakushimanum</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>non-climbing</td>
<td>non grimpant</td>
<td>nicht kletternd</td>
<td>no trepadora</td>
<td>Merveille</td>
<td>2</td>
</tr>
</tbody>
</table>

| PQ | upright | dressé | aufrecht | erecto | Merveille | 1 |
|    | semi upright | demi dressé | halbaufrecht | semierecto |           | 2 |
|    | spreading | étalé | breitwüchsig | extendido |           | 3 |

| QN | short | courte | niedrig | baja | Hörnli | 3 |
|    | medium | moyenne | mittel | media | Merveille | 5 |
|    | tall | haute | hoch | alta | Maman | 7 |

| 4. (*) | **Stem: fasciation** | **Tige : fascination** | **Stiel: Verbänderung Tallo: fasciación** |                                |           |
| QL | absent | absente | fehlend | ausente | Merveille | 1 |
|    | present | présente | vorhanden | presente | Domotoi | 9 |

<p>| 5. (*) | <strong>Stem: color</strong> | <strong>Tige : couleur</strong> | <strong>Trieb: Farbe</strong> | <strong>Tallo: color</strong> |                                |           |
| PQ | green | verte | grün | verde | Merveille | 1 |
|    | brownish | brunâtre | bräunlich | amarronado |           | 2 |
|    | purplish | pourpre | purpurín | purpúreo |           | 3 |
|    | blackish | noirâtre | schwärzlich | negruzco | Nigra | 4 |</p>
<table>
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<tr>
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<th>deutsch</th>
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<th>Note/Nota</th>
</tr>
</thead>
<tbody>
<tr>
<td>QN</td>
<td>absent or few</td>
<td>absentes ou peu nombreuses</td>
<td>fehlend oder wenige</td>
<td>ninguna o pocas</td>
<td>Zorro</td>
<td>1</td>
</tr>
<tr>
<td></td>
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<td>moyennement nombreuses</td>
<td>mittel</td>
<td>media</td>
<td>Merveille</td>
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<tr>
<td></td>
<td>many</td>
<td>nombreuses</td>
<td>viele</td>
<td>muchas</td>
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<td>media</td>
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<tr>
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<td>long</td>
<td>lang</td>
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<tr>
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<td>étroit</td>
<td>schmal</td>
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<td>Shichidanka</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>11. (+)</td>
<td><strong>Only varieties with leaf blade lobing:</strong> absent</td>
<td><strong>Uniquement les variétés sans découpages des bords:</strong> Limbe : forme</td>
<td><strong>Nur Sorten mit Lappung der Blattspreite:</strong> fehlend: Blattspreite: Form</td>
<td><strong>Sólo variedades que no presentan limbo lobulado</strong>: Limbo: forma</td>
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<td>12. (*) (+)</td>
<td><strong>Leaf blade: length of tip</strong></td>
<td>Limbe : longueur de la pointe</td>
<td>Blattspreite: Länge der Spitze</td>
<td>Limbo: longitud del ápice</td>
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<td>13. (+)</td>
<td><strong>Leaf blade: shape of base</strong></td>
<td>Limbe : forme de la base</td>
<td>Blattspreite: Form der Basis</td>
<td>Limbo: forma de la base</td>
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<td></td>
</tr>
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<td>pointue</td>
<td>spitz</td>
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<td>stumpf</td>
<td>obtusa</td>
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<td>14.</td>
<td><strong>Leaf blade: depth of incisions</strong></td>
<td>Limbe : profondeur des incisions</td>
<td>Blattspreite: Tiefe der Einschnitte</td>
<td>Limbo: profundidad de las incisiones</td>
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<td></td>
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<td>flach</td>
<td>poco profunda</td>
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<td>profondes</td>
<td>tief</td>
<td>profunda</td>
<td>Altona</td>
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<td>15. (*)</td>
<td><strong>Leaf blade: variegation</strong></td>
<td>Limbe : panachure</td>
<td>Blattspreite: Panaschierung</td>
<td>Limbo: variegación</td>
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<td></td>
</tr>
<tr>
<td></td>
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<td>absente</td>
<td>fehlend</td>
<td>ausente</td>
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</tr>
<tr>
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<td>présente</td>
<td>vorhanden</td>
<td>presente</td>
<td>Tricolor</td>
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<td>deutsch</td>
<td>español</td>
<td>Example Varieties/Exemples/Beispielsorten/Variedades ejemplo</td>
<td>Note/Nota</td>
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<td>-------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>(*)(+)</td>
<td>PQ</td>
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<td>jaune</td>
<td>gelb</td>
<td>amarillo</td>
<td>Ogonda</td>
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<td>hellgrün</td>
<td>verde claro</td>
<td>Mousseline</td>
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<td>verte moyenne</td>
<td>mittelgrün</td>
<td>verde medio</td>
<td>Hobergine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dark green</td>
<td>verte foncée</td>
<td>dunkelgrün</td>
<td>verde oscuro</td>
<td>Rosalba</td>
</tr>
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<td>violette</td>
<td>purpur</td>
<td>purpura</td>
<td>Merveille Sanguinea</td>
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<tr>
<td>17.</td>
<td>Leaf blade: secondary color</td>
<td>Limbe : couleur secondaire</td>
<td>Blattspreite: Sekundärfarbe</td>
<td>Limbo: color secundario</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(*)</td>
<td>PQ</td>
<td>white only</td>
<td>seulement blanche</td>
<td>nur weiß</td>
<td>sólo blanco</td>
<td>Variegata</td>
</tr>
<tr>
<td></td>
<td></td>
<td>white and yellow</td>
<td>blanche et jaune</td>
<td>weiß und gelb</td>
<td>blanco y amarillo</td>
<td>Tricolor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>yellow only</td>
<td>seulement jaune</td>
<td>nur gelb</td>
<td>sólo amarillo</td>
<td>Lemen wave</td>
</tr>
<tr>
<td>18.</td>
<td>Leaf blade: glossiness of upper side</td>
<td>Feuille : brillance de la face supérieure</td>
<td>Blattspreite: Glanz der Oberseite</td>
<td>Limbo: brillo del haz</td>
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<td>absente ou faible</td>
<td>fehlend oder gering</td>
<td>ausente o débil</td>
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<td>moderado</td>
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<td>forte</td>
<td>stark</td>
<td>fuerte</td>
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</tr>
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<td>gering</td>
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<td>20.</td>
<td>Inflorescence: shape</td>
<td>Inflorescence : forme</td>
<td>Blütenstand: Form</td>
<td>Inflorescencia: forma</td>
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<td>(*) (+)</td>
<td>PQ</td>
<td>flattened</td>
<td>aplatie</td>
<td>abgeflacht</td>
<td>aplanada</td>
<td>Mousmée, Sea Foam</td>
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<td>deutsch</td>
<td>español</td>
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<td>Note/ Nota</td>
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<td>courte</td>
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<td>alta</td>
<td>Snowflake</td>
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<td>22.</td>
<td>Inflorescence: diameter</td>
<td>Inflorescence : diamètre</td>
<td>Blütenstand: Durchmesser</td>
<td>Inflorescencia: diámetro</td>
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<td>(+)</td>
<td>QN</td>
<td>small</td>
<td>petit</td>
<td>klein</td>
<td>pequeño</td>
<td>Hörnli</td>
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<td>mittel</td>
<td>medio</td>
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<td>5</td>
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<td>grand</td>
<td>groß</td>
<td>grande</td>
<td>Maman</td>
<td>7</td>
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<tr>
<td>(*)</td>
<td>QN</td>
<td>inconspicuous or slightly conspicuous</td>
<td>peu nettes ou légèrement nettes</td>
<td>undeutlich oder etwas deutlich</td>
<td>invisibles o ligeramente visibles</td>
<td>Merveille</td>
</tr>
<tr>
<td>(+)</td>
<td></td>
<td>moderately conspicuous</td>
<td>modérément nettes</td>
<td>mäßig deutlich</td>
<td>moderadamente visibles</td>
<td>Mucke</td>
</tr>
<tr>
<td></td>
<td></td>
<td>very conspicuous</td>
<td>très nettes</td>
<td>sehr deutlich</td>
<td>muy visibles</td>
<td>Mousmée, Sea Foam</td>
</tr>
<tr>
<td>24.</td>
<td>Only varieties with inflorescence shape: flattened:</td>
<td>Uniquement les variétés à forme d'inflorescence :</td>
<td>Nur Sorten mit Blütenstand: Form:</td>
<td>Sólo variedades con forma de la inflorescencia: aplanada:</td>
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<td>(+)</td>
<td>PQ</td>
<td>irregular</td>
<td>irrégulière</td>
<td>unregelmäßig</td>
<td>irregular</td>
<td>Vetchie</td>
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<tr>
<td></td>
<td>in one whorl</td>
<td>en un verticille</td>
<td>in einem Quirl</td>
<td>en un verticilo</td>
<td>Tricolor</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>in two or more whorls</td>
<td>en deux verticilles ou plus</td>
<td>in zwei oder mehr Quirlen</td>
<td>en dos o más verticilos</td>
<td>Jogasaki</td>
<td>3</td>
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<tr>
<td>English</td>
<td>français</td>
<td>deutsch</td>
<td>español</td>
<td>Example Varieties/ Exemples/ Beispielsorten/ Variedades ejemplo</td>
<td>Note/ Nota</td>
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<td>Sterile flower: diameter of calyx</td>
<td>Fleur stérile : diamètre du calice</td>
<td>Sterile Blüte: Durchmesser des Kelches</td>
<td>Flor estéril: diámetro del cáliz</td>
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<td>25. (*) (+)</td>
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<tr>
<td>QN</td>
<td>small</td>
<td>petit</td>
<td>klein</td>
<td>pequeño</td>
<td>Ayesha 3</td>
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<td>moyen</td>
<td>mittel</td>
<td>medio</td>
<td>Homli/Mariesi 5</td>
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<td>grand</td>
<td>groß</td>
<td>grande</td>
<td>Alpenglühren 7</td>
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<td>Fleur stérile : type</td>
<td>Sterile Blüte: Typ</td>
<td>Flor estéril: tipo</td>
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<tr>
<td>QL</td>
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<td>simple</td>
<td>einfach</td>
<td>simple</td>
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<tr>
<td></td>
<td>double</td>
<td>double</td>
<td>gefüllt</td>
<td>doble</td>
<td>Amethyst, Izu-no-Hana 2</td>
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<tr>
<td>Sterile flower: degree of overlapping of sepals</td>
<td>Fleur stérile : degré de chevauchement des sépales</td>
<td>Sterile Blüte: Stärke des Überlappens der Kelchblätter</td>
<td>Flor estéril: grado de solapado de los sépalos</td>
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<tr>
<td>27. (*) (+)</td>
<td></td>
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<tr>
<td>QN</td>
<td>absent or very weak</td>
<td>absent ou très faible</td>
<td>fehlend oder sehr gering</td>
<td>ausente o muy débil</td>
<td>Hörnli 1</td>
<td></td>
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<td></td>
<td>weak</td>
<td>faible</td>
<td>gering</td>
<td>débil</td>
<td>Madame Plumecoq 2</td>
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<td>moyen</td>
<td>mittel</td>
<td>medio</td>
<td>Bichon 3</td>
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<td></td>
<td>strong</td>
<td>fort</td>
<td>stark</td>
<td>fuerte</td>
<td>Heinrich Siedel, Madame Gilles Goujon 4</td>
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<tr>
<td></td>
<td>very strong</td>
<td>très fort</td>
<td>sehr stark</td>
<td>muy fuerte</td>
<td>Etoile Violette, Merveille Sanguinéa 5</td>
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<td>Sterile flower: incisions of margin of sepals</td>
<td>Fleur stérile : incisions du bord du sépale</td>
<td>Sterile Blüte: Randeinschnitte des Kelchblattes</td>
<td>Flor estéril: incisiones del borde del sépalo</td>
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<td>28. (*) (+)</td>
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<tr>
<td>QN</td>
<td>absent on all sepals</td>
<td>absentes sur tous les sépales</td>
<td>fehlend an allen Kelchblättern</td>
<td>ausentes en todos los sépalos</td>
<td>Maman, Merveille 1</td>
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<tr>
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<td>present on some sepals</td>
<td>présentes sur quelques sépales</td>
<td>vorhanden an einigen Kelchblättern</td>
<td>presentes en algunos sépalos</td>
<td>Gloria 2</td>
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<tr>
<td></td>
<td>present on all sepals</td>
<td>présentes sur tous les sépales</td>
<td>vorhanden an allen Kelchblättern</td>
<td>presentes en todos los sépalos</td>
<td>Europa 3</td>
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<td>Example Varieties/Exemples/Beispielssorten/Variedades ejemplo</td>
<td>Note/Nota</td>
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<tr>
<td>29. Sterile flower: main color of sepal</td>
<td>PQ (b) RHS Colour Chart (indicate reference number)</td>
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<tr>
<td>(*) (+) Fleur stérile : couleur principale du sépale</td>
<td>Code RHS des couleurs (indiquer le numéro de référence)</td>
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<td>RHS-Farbkarte (Nummer angeben)</td>
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<td>Carta de colores RHS (indíquese el número de referencia)</td>
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<td>30. Sterile flower: secondary color of sepal</td>
<td>PQ (b)</td>
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<tr>
<td>(*) (+) Fleur stérile : couleur secondaire du sépale</td>
<td>absent absente fehlend ausente</td>
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<td>Sterile Blüte: Sekundärfarbe des Kelchblattes</td>
<td>white blanche weiß blanco</td>
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<td>Flor estéril: color secundario del sépalo</td>
<td>pink rose rosa rosa</td>
<td></td>
<td></td>
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<tr>
<td>red rouge rot rojo</td>
<td>(b) absent absente fehlend ausente</td>
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<td>white blanche weiß blanco</td>
<td>1 Raberah</td>
<td></td>
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<tr>
<td>pink rose rosa rosa</td>
<td>2 Sandra</td>
<td></td>
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<tr>
<td>red rouge rot rojo</td>
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<td>31. Sterile flower: distribution of secondary color of sepal</td>
<td>PQ</td>
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<tr>
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<td>marginal zone marginale Randzone en el borde</td>
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<td>diffuse diffuse diffus difusa</td>
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<tr>
<td>PQ</td>
<td>1 Ripple</td>
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<tr>
<td>distal part partie distale distaler Teil en la parte distal</td>
<td>2 Sandra</td>
<td></td>
<td></td>
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<td></td>
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<td>marginal zone marginale Randzone en el borde</td>
<td>3 Rosalba</td>
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<td>diffuse diffuse diffus difusa</td>
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<td>32. Fertile flower: color of petals</td>
<td>PQ</td>
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<tr>
<td>PQ</td>
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<tr>
<td>white blancs weiß blanco</td>
<td>2 Tricolor</td>
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<tr>
<td>pink roses rosa rosa</td>
<td>3 Lemen wave</td>
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<tr>
<td>purple violets purpurn púrpura</td>
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<td>33. Time of beginning of flowering</td>
<td>QN</td>
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<td>(*) (+) Époque de début de la floraison</td>
<td>early précoce früh temprana</td>
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<td>Zeitpunkt des Blühbeginns</td>
<td>medium moyenne mittel media</td>
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<td>Época de inicio de la floración</td>
<td>late tardive spät tardía</td>
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<td></td>
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<tr>
<td>Europa, Hörnli, Magicien</td>
<td>3 Freudenstein</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>medium moyenne mittel media</td>
<td>5 Maman, Marveille</td>
<td></td>
<td></td>
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<tr>
<td>late tardive spät tardía</td>
<td>7</td>
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</table>
8. **Explanations on the Table of Characteristics**

**Ad. 3:** Only varieties with plant type: non-climbing; Plant: natural height including inflorescence

Plants should be examined during the flowering period.

**Ad. 4:** Stem: fasciation

**Ad. 10:** Leaf blade: lobing

<table>
<thead>
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<tr>
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<td>9</td>
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</table>
Ad. 11: Only varieties with leaf blade lobing: absent. Leaf blade: shape

<table>
<thead>
<tr>
<th>&lt;position of broadest part&gt;</th>
<th>below middle</th>
<th>at middle</th>
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<tr>
<td>high</td>
<td></td>
<td></td>
</tr>
<tr>
<td>low</td>
<td>1 ovate</td>
<td></td>
</tr>
</tbody>
</table>

2 elliptic

3 circular
Ad. 12: Leaf blade: length of tip

1 short
2 medium
3 long

Ad. 13: Leaf blade: shape of base

1 acute
2 obtuse
3 rounded
4 cordate

Ad. 16: Leaf blade: main color

The main color is the color with the largest surface area.
Ad. 20: Inflorescence: shape

1 flattened
2 globular
3 conical

Ad. 21: Inflorescence: height

Ad. 22: Inflorescence: diameter
Ad. 23: Inflorescence: conspicuousness of fertile flowers

Fertile flowers tend to have a small inconspicuous calyx and sterile flowers have a large prominent calyx.

![Inconspicuous](image1) ![Very Conspicuous](image2)

Ad. 24: Only varieties with flower head shape: flattened: Inflorescence: arrangement of sterile flowers

1. Irregular
2. In one whorl
3. In two or more whorls
Ad. 25: Sterile flower: diameter of calyx

The diameter should be observed at the broadest part of the calyx.

Ad. 26: Sterile flower: type

single: when the number of sepals is 3 to 6
double: when the number of sepals is > 6

Ad. 27: Sterile flower: degree of overlapping of sepals

1. absent or very weak
2. weak
3. medium
4. strong
5. very strong
Ad. 28: Sterile flower: incisions of margin of sepal

1. absent on all sepals
2. present on some sepals
3. present on all sepals

Ad. 29: Sterile flower: main color of sepal
Ad. 30: Sterile flower: secondary color of sepal

The color should be observed on plants grown in pots in a medium with pH higher than 5 and with no added aluminum or other metals that would affect the color. In other growing conditions the color could be different. The main color is the color with the largest surface area. The secondary color is the color with the second largest surface area.

Ad. 30: Sterile flower: secondary color of sepal

2. white
3. pink
4. red
Ad. 31: Sterile flower: distribution of secondary color of sepal

1 distal part
2 marginal zone
3 diffuse

Ad. 33: Time of beginning of flowering

The time of beginning of flowering is when one or more inflorescences have at least 90% colored sepals.
9. Literature


10. Technical Questionnaire

<table>
<thead>
<tr>
<th>TECHNICAL QUESTIONNAIRE</th>
<th>Page {x} of {y}</th>
<th>Reference Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Application date:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(not to be filled in by the applicant)</td>
<td></td>
</tr>
</tbody>
</table>

TECHNICAL QUESTIONNAIRE

to be completed in connection with an application for plant breeders’ rights

1. Subject of the Technical Questionnaire

1.1 Genus

<table>
<thead>
<tr>
<th>1.1.1 Botanical Name</th>
<th>Hydrangea L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.2 Common Name</td>
<td>Hydrangea</td>
</tr>
</tbody>
</table>

1.2 Species

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

2. Applicant

Name

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

Address

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

Telephone No.

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

Fax No.

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

E-mail address

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

Breeder (if different from applicant)

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

3. Proposed denomination and breeder’s reference

Proposed denomination

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

(if available)

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>

Breeder’s reference

|                      |
4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross
(please state parent varieties) 

(b) partially known cross
(please state known parent variety(ies))

(c) unknown cross

4.1.2 Mutation
(please state parent variety)

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

4.1.4 Other
(please provide details)

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

(a) cuttings

(b) in vitro propagation

(c) other (state method)

4.2.2 Seed

4.2.3 Other
(please provide details)

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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Example Varieties</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1  (4) Stem: fasciation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>absent</td>
<td>Merveille</td>
<td>1[ ]</td>
</tr>
<tr>
<td>present</td>
<td>Domotoi</td>
<td>9[ ]</td>
</tr>
<tr>
<td>5.2  (5) Stem: color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>green</td>
<td>Merveille</td>
<td>1[ ]</td>
</tr>
<tr>
<td>brownish</td>
<td>2[ ]</td>
<td></td>
</tr>
<tr>
<td>purplish</td>
<td>3[ ]</td>
<td></td>
</tr>
<tr>
<td>blackish</td>
<td>Nigra</td>
<td>4[ ]</td>
</tr>
<tr>
<td>5.3  (16) Leaf blade: main color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>yellow</td>
<td>Ogonda</td>
<td>1[ ]</td>
</tr>
<tr>
<td>light green</td>
<td>Mousseline</td>
<td>2[ ]</td>
</tr>
<tr>
<td>medium green</td>
<td>Hobergine</td>
<td>3[ ]</td>
</tr>
<tr>
<td>dark green</td>
<td>Rosalba</td>
<td>4[ ]</td>
</tr>
<tr>
<td>purple</td>
<td>Merveille Sanguinea</td>
<td>5[ ]</td>
</tr>
<tr>
<td>5.4  (20) Inflorescence: shape</td>
<td></td>
<td></td>
</tr>
<tr>
<td>flattened</td>
<td>Mousmée, Sea Foam</td>
<td>1[ ]</td>
</tr>
<tr>
<td>globular</td>
<td>Merveille</td>
<td>2[ ]</td>
</tr>
<tr>
<td>conical</td>
<td>Snowflake</td>
<td>3[ ]</td>
</tr>
<tr>
<td>5.5  (23) Inflorescence: conspicuousness of fertile flowers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>inconspicuous or slightly conspicuous</td>
<td>Merveille</td>
<td>1[ ]</td>
</tr>
<tr>
<td>moderately conspicuous</td>
<td>Mucke</td>
<td>2[ ]</td>
</tr>
<tr>
<td>very conspicuous</td>
<td>Mousmée, Sea Foam</td>
<td>3[ ]</td>
</tr>
</tbody>
</table>
### TECHNICAL QUESTIONNAIRE

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Example Varieties</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5.6</strong> Sterile flower: type (26)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>single</td>
<td>Merveille</td>
<td>1[ ]</td>
</tr>
<tr>
<td>double</td>
<td>Amethyst, Izu-no-Hana</td>
<td>2[ ]</td>
</tr>
<tr>
<td><strong>5.7(a)(i)</strong> Sterile flower: main color of sepal (29) (plants continuously grown in non-bluing conditions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RHS Colour Chart (indicate reference number)</td>
<td></td>
</tr>
<tr>
<td><strong>5.7(a)(ii)</strong> Sterile flower: main color of sepal (29) (plants continuously grown in non-bluing conditions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>white</td>
<td>1[ ]</td>
<td></td>
</tr>
<tr>
<td>light pink</td>
<td>2[ ]</td>
<td></td>
</tr>
<tr>
<td>dark pink</td>
<td>3[ ]</td>
<td></td>
</tr>
<tr>
<td>purple pink</td>
<td>4[ ]</td>
<td></td>
</tr>
<tr>
<td>red</td>
<td>5[ ]</td>
<td></td>
</tr>
<tr>
<td>other</td>
<td>6[ ]</td>
<td></td>
</tr>
<tr>
<td><strong>5.7(b)(i)</strong> Sterile flower: main color of sepal (29) (plants continuously grown in bluing conditions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RHS Colour Chart (indicate reference number)</td>
<td></td>
</tr>
<tr>
<td><strong>5.7(b)(ii)</strong> Sterile flower: main color of sepal (29) (plants continuously grown in bluing conditions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>color (please complete)</td>
<td></td>
<td>[ ]</td>
</tr>
<tr>
<td><strong>5.8</strong> Sterile flower: secondary color of sepal (30)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>absent</td>
<td>1[ ]</td>
<td></td>
</tr>
<tr>
<td>white</td>
<td>Raberah</td>
<td>2[ ]</td>
</tr>
<tr>
<td>pink</td>
<td>Sandra</td>
<td>3[ ]</td>
</tr>
<tr>
<td>red</td>
<td>Ripple</td>
<td>4[ ]</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Denomination(s) of variety(ies) similar to your candidate variety</th>
<th>Characteristic(s) in which your candidate variety differs from the similar variety(ies)</th>
<th>Describe the expression of the characteristic(s) for the similar variety(ies)</th>
<th>Describe the expression of the characteristic(s) for your candidate variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Sterile flower: main color of sepal</td>
<td>light pink</td>
<td>dark pink</td>
<td></td>
</tr>
</tbody>
</table>

Comments:
### 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?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

(If yes, please provide details)

#### 7.2 Are there any special conditions for growing the variety or conducting the examination?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

(If yes, please provide details)

#### 7.3 A representative color photograph of the variety should accompany the Technical Questionnaire.

#### 7.4 Use

- (a) pot plant [ ]
- (b) garden plant [ ]
- (c) cut-flower [ ]
- (d) other [ ]

(please provide details)

### Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

(b) Has such authorization been obtained?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

If the answer to (b) is yes, please attach a copy of the authorization.

---

* Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.
9. Information on plant material to be examined or submitted for examination.

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

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

   (a) Microorganisms (e.g. virus, bacteria, phytoplasma)  Yes [ ]  No [ ]

   (b) Chemical treatment (e.g. growth retardant, pesticide) Yes [ ]  No [ ]

   (c) Tissue culture Yes [ ]  No [ ]

   (d) Other factors Yes [ ]  No [ ]

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

…………………………………………………………………………………………………………………………

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

Applicant’s name

Signature Date