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| International Union for the Protection of New Varieties of Plants |  |

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| Technical Working Party for Vegetables  Fifty-Sixth Session Virtual meeting, April 18 to 22, 2022 | TWV/56/16  Original: English  Date: March 18, 2022 |

Partial revision of the Test Guidelines for Leaf Chicory

Document prepared by an expert from France

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The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Leaf Chicory (document TG/154/4).

The Technical Working Party for Vegetables (TWV), at its fifty-fifth session, hosted by Turkey and organized by electronic means, from May 3 to 7, 2021, agreed that the Test Guidelines for Leaf Chicory (*Cichorium intybus* L. var. *foliosum* Hegi) (document TG/154/4) be partially revised for Characteristics 8 “Leaf: color”, 11 “Leaf: profile of upper side” and 25 “Head: color of cover leaves” and the addition of two new characteristics “Only varieties with anthocyanin coloration: present: Leaf: area covered by anthocyanin coloration” and “Leaf: profile of margin of apical part” (see document TWV/55/16 “Report”, Annex III).

The following changes are proposed to Chapter 7 “Table of Characteristics”:

1. Addition of a new state of expression “very dark” with note 8 to Characteristic 8 “Leaf: color”;
2. Addition of two new characteristics “Only varieties with anthocyanin coloration: present: Leaf: anthocyanin distribution: “diffused only”: Leaf: area of diffused anthocyanin coloration on the whole of the leaf (including midrib)” and “Only varieties with Leaf: anthocyanin distribution: in patches only or diffused and in patches: Leaf: area of anthocyanin coloration” after characteristic 10 “Leaf: anthocyanin distribution”;
3. Revision of title and example varieties of Characteristic 11 “Leaf: profile of upper side”;
4. Addition of a new characteristic “Leaf: profile of margin at apical zone” after Characteristic 11 “Leaf: profile of upper side”;
5. Addition of a new state of expression “very dark red” with note 9 to Characteristic 25 “Head: color of cover leaves”.

The proposed changes are presented below in highlight and underline (insertion) and ~~strikethrough~~ (deletion).

## Proposal to revise Chapter 7 “Table of characteristics”

|  |  | English | | français | | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **8.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Leaf:  color** | | | |  | | --- | | **Feuille : couleur** | | | |  | | --- | | **Blatt:  Farbe** | | |  | | --- | | **Hoja:  color** | |  |  |
|  |  | yellowish green | | vert jaunâtre | | gelblichgrün | verde amarillento | Bianca di Milano | 1 |
|  |  | light green | | vert clair | | hellgrün | verde claro | A grumolo bionda, Rosa | 2 |
|  |  | medium green | | vert moyen | | mittelgrün | verde medio | A grumolo verde | 3 |
|  |  | dark green | | vert foncé | | dunkelgrün | verde oscuro | A grumolo verde scuro | 4 |
|  |  | light red | | rouge clair | | hellrot | rojo claro |  | 5 |
|  |  | medium red | | rouge moyen | | mittelrot | rojo medio | Rossa di Treviso precoce | 6 |
|  |  | dark red | | rouge foncé | | dunkelrot | rojo oscuro | Rosa isontina | 7 |
|  |  | very dark red | | rouge très foncé | | sehr dunkelrot | rojo muy oscuro | Caravaggio | 8 |
| **9.** | **(\*)** | **PQ** | **VG** | **(+)** | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Leaf: anthocyanin distribution** | | | |  | | --- | | **Feuille : distribution de la pigmentation anthocyanique** | | | |  | | --- | | **Blatt: Verteilung des Anthocyans** | | |  | | --- | | **Hoja: distribución de la antocianina** | |  |  |
|  |  | diffused only | | diffuse seulement | | nur diffus | solamente difusa | Palla rossa 2 | 1 |
|  |  | in patches only | | en taches seulement | | nur in Flecken | solamente en manchas | Variegata di Castelfranco, Variegata di Lusia | 2 |
|  |  | diffused and in patches | | diffuse et en taches | | diffus und in Flecken | difusa y en manchas | Palla rossa 2 | 1 |
| **10.** |  | **QN** | **VG** |  | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Only varieties with anthocyanin coloration: present: Leaf: anthocyanin distribution: “diffused only”: Leaf: area of diffused anthocyanin coloration on the whole of the leaf (including midrib)** | | |  | |  |  |  |  |
|  |  | small | |  | |  |  | Palla Rossa 2 | 3 |
|  |  | medium | |  | |  |  | Granato | 5 |
|  |  | large | |  | |  |  | Caravaggio | 7 |
| **11.** |  | **QN** | **VG** |  | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Only varieties with Leaf: anthocyanin distribution: in patches only or diffused and in patches: Leaf: area of anthocyanin coloration** | | |  | |  |  |  |  |
|  |  | very small | |  | |  |  | Variegata di Lusia | 1 |
|  |  | small | |  | |  |  | Variegata di Castelfranco | 3 |
|  |  | medium | |  | |  |  | Variegata di Chioggia | 5 |
|  |  | large | |  | |  |  | Variegata di Adria | 7 |
| **~~10.~~ 12.** |  | **PQ** | **VG** |  | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Leaf: color of midrib** | | | |  | | --- | | **Feuille : couleur de la nervure médiane** | | | |  | | --- | | **Blatt: Farbe der Mittelrippe** | | |  | | --- | | **Hoja: color del nervio central** | |  |  |
|  |  | whitish | | blanchâtre | | weißlich | blanquecino | Bianca invernale,  Bianca di Milano,  Pan di zucchero | 1 |
|  |  | green | | verte | | grün | verde | A grumolo verde, Katrina | 2 |
|  |  | red | | rouge | | rot | rojo | Medusa | 3 |
| **~~11.~~**  **13.** |  | **QN** | **VG** |  | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Leaf: profile of upper side in longitudinal section** | | | |  | | --- | | **Feuille : profil de la face supérieure en section longitudinale** | | | |  | | --- | | **Blatt: Profil der Oberseite im Längsschnitt** | | |  | | --- | | **Hoja: perfil del haz en sección longitudinal** | |  |  |
|  |  | strongly concave | | fortement concave | | stark konkav | muy cóncavo | Botticelli, Indigo | 1 |
|  |  | weakly concave | | faiblement concave | | leicht konkav | débilmente cóncavo | Grumolo verde scuro | 2 |
|  |  | flat | | plan | | flach | plano | Rossa di Treviso 2 | 3 |
|  |  | weakly convex | | faiblement convexe | | leicht konvex | débilmente convexo | Granato,  Rossa di Treviso precoce,  Uranus | 4 |
|  |  | strongly convex | | fortement convexe | | stark konvex | fuertemente convexo | ~~Granato~~ A grumolo verde | 5 |
| **14.** | **(\*)** | **QN** | **VG** |  | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Leaf: profile of margin at apical zone** | | |  | |  |  |  |  |
|  |  | strongly concave | |  | |  |  | Verona | 1 |
|  |  | weakly concave | |  | |  |  | Giove | 2 |
|  |  | flat | |  | |  |  | Pan di zuccchero | 3 |
|  |  | weakly convex | |  | |  |  | Granato | 4 |
|  |  | strongly convex | |  | |  |  |  | 5 |
| **~~12.~~**  **15.** |  | **QN** | **VG** |  | **(a), (b)** |  | | | |
|  |  | |  | | --- | | **Leaf: glossiness** | | | |  | | --- | | **Feuille : brillance** | | | |  | | --- | | **Blatt: Glanz** | | |  | | --- | | **Hoja: brillo** | |  |  |
|  |  | absent or weak | | nulle ou faible | | fehlend oder gering | ausente o débil | Jupiter, Rosa | 1 |
|  |  | medium | | moyenne | | mittel | medio | Variegata di Chioggia | 3 |
|  |  | strong | | forte | | stark | fuerte |  | 5 |
|  |  | […] | |  | |  |  |  |  |
| **~~25.~~**  **28.** | **(\*)** | **PQ** | **VG** |  | **(a)** |  | | | |
|  |  | |  | | --- | | **Head: color of cover leaves** | | | |  | | --- | | **Pomme : couleur des feuilles de couverture** | | | |  | | --- | | **Kopf: Farbe der Deckblätter** | | |  | | --- | | **Repollo: color de las hojas de cobertura** | |  |  |
|  |  | whitish green | | vert blanchâtre | | weißlichgrün | verde blanquecino | Variegata di Chioggia | 1 |
|  |  | yellowish green | | vert jaunâtre | | gelblichgrün | verde amarillento | Bianca invernale, Variegata di Lusia | 2 |
|  |  | light green | | vert clair | | hellgrün | verde claro | A grumolo bionda,  Pan di zucchero | 3 |
|  |  | medium green | | vert moyen | | mittelgrün | verde medio | A grumolo verde | 4 |
|  |  | dark green | | vert foncé | | dunkelgrün | verde oscuro | A grumolo verde scuro, Catalogna puntarelle a foglia frastagliata | 5 |
|  |  | light red | | rouge clair | | hellrot | rojo claro | Rosa | 6 |
|  |  | medium red | | rouge moyen | | mittelrot | rojo medio | Rossa di Verona precoce | 7 |
|  |  | dark red | | rouge foncé | | dunkelrot | rojo oscuro | Nerone, Rosa isontina | 8 |
|  |  | very dark red | | rouge très foncé | | sehr dunkelrot | rojo muy oscuro | Caravaggio | 9 |

Changes agreed to characteristics in Chapter 7 “Table of characteristics” will also be reflected in Chapters 5.3 “Grouping of Varieties” and Organization of the Growing Trial”, 8 Explanations on the Table of Characteristics” and 10 “Technical Questionnaire”, Section 5 “Characteristics of the variety to be indicated”.

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