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|  |  | ETWV/48/37**ORIGINAL:**  EnglishDATE:  May 16, 2014 |
| INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS  |
| Geneva |

Technical working party for VEGETABLES

Forty-Eighth Session
Paestum, Italy, June 23 to 27, 2014

PARTIAL REVISION of the Test Guidelines for Spinach (document TG/55/7 Rev.2)

Document prepared by an expert from the Netherlands

 The purpose of this document is to present the proposal for the partial revision of the Test Guidelines for Spinach (document TG/55/7 Rev.2).

 The following changes are proposed:

* Revision of Characteristic 18 “Resistencia a *Peronospora farinosa* f. sp. *spinaciae*”:
	+ addition of “Race Pfs: 14”, including example varieties;
	+ deletion of asterisk from Race Pfs: 5, Race Pfs: 6 and Race Pfs: 7;
	+ addition of asterisk for Race Pfs: 8, Race Pfs: 11 and Race Pfs: 12.
	+ revision of explanation Ad. 18 in Chapter 8.2 “Explanations for individual characteristics”

 The changes to Characteristic 18 “Resistencia a *Peronospora farinosa* f. sp. *spinaciae*” are presented in highlight and underline (insertion) and ~~strikthrough~~ (deletion).

|  |  | English | français | Deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **18.(+)** | **VG** | **Resistance to *Peronospora farinosa* f. sp.*spinaciae*** | **Résistance à *Peronospora farinosa* f*.* sp**.***spinaciae*** | **Resistenz gegen *Peronospora farinosa* f. sp***.****spinaciae*** | **Resistencia a *Peronospora farinosa* f. sp. *spinaciae*** |  |  |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.1** |  | **Race Pfs: 1** | **Race Pfs: 1** | **Pathotyp Pfs: 1** | **Raza Pfs: 1** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Viroflay, Winterreuzen | 1 |
|  |  | present | présente | vorhanden | presente | Califlay, Resistoflay | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.2** |  | **Race Pfs: 2** | **Race Pfs: 2** | **Pathotyp Pfs: 2** | **Raza Pfs: 2** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Califlay | 1 |
|  |  | present | présente | vorhanden | presente | Resistoflay | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| 18.3 |  | Race Pfs: 3 | Race Pfs: 3 | Pathotyp Pfs: 3 | Raza Pfs: 3 |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Resistoflay | 1 |
|  |  | present | présente | vorhanden | presente | Califlay, Clermont | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.4** |  | **Race Pfs: 4** | **Race Pfs: 4** | **Pathotyp Pfs: 4** | **Raza Pfs: 4** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Califlay | 1 |
|  |  | present | présente | vorhanden | presente | Clermont | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.5~~(\*)~~** |  | **Race Pfs: 5** | **Race Pfs: 5** | **Pathotyp Pfs: 5** | **Raza Pfs: 5** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Clermont | 1 |
|  |  | present | présente | vorhanden | presente | Califlay, Campania | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.6~~(\*)~~** |  | **Race Pfs: 6** | **Race Pfs: 6** | **Pathotyp Pfs: 6** | **Raza Pfs: 6** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Califlay, Campania | 1 |
|  |  | present | présente | vorhanden | presente | Boeing | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.7~~(\*)~~** |  | **Race Pfs: 7** | **Race Pfs: 7** | **Pathotyp Pfs: 7** | **Raza Pfs: 7** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Califlay | 1 |
|  |  | present | présente | vorhanden | presente | Campania | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.8(\*)** |  | **Race Pfs: 8** | **Race Pfs: 8** | **Pathotyp Pfs: 8** | **Raza Pfs: 8** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Boeing, Campania | 1 |
|  |  | present | présente | vorhanden | presente | Lazio, Lion | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.9** |  | **Race Pfs: 10** | **Race Pfs: 10** | **Pathotyp Pfs:10** | **Raza Pfs:10** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Boeing, Campania, Lion | 1 |
|  |  | present | présente | vorhanden | presente | Lazio | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.10(\*)** |  | **Race Pfs: 11** | **Race Pfs: 11** | **Pathotyp Pfs: 11** | **Raza Pfs: 11** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Lazio | 1 |
|  |  | present | présente | vorhanden | presente | Boeing, Califlay, Campania, Lion | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.11(\*)** |  | **Race Pfs: 12** | **Race Pfs: 12** | **Pathotyp Pfs: 12** | **Raza Pfs: 12** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Boeing, Campania | 1 |
|  |  | present | présente | vorhanden | presente | Finch, Pigeon, Red Kitten, Zebu | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.12** |  | **Race Pfs: 13** | **Race Pfs: 13** | **Pathotyp Pfs: 13** | **Raza Pfs: 13** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Campania | 1 |
|  |  | present | présente | vorhanden | presente | Boeing, Lion | 9 |
|  |  | -------------------------- | -------------------------- | -------------------------- | -------------------------- | ------------------------------ | --------- |
| **18.13** |  | **Race Pfs: 14** | **Race Pfs: 14** | **Pathotyp Pfs: 14** | **Raza Pfs: 14** |  |  |
| **QL** |  | absent | absente | fehlend | ausente | Campania, Pigeon  | 1 |
|  |  | present | présente | vorhanden | presente | Califlay, Lion | 9 |

 The changes highlighted in yellow are proposed to the table of differential varieties to identify races in Ad. 18:

Differential varieties to identify races

 Races Pfs: 1-8 and 10-14 of *Peronospora farinosa* f. sp. *spinaciae* are defined with a standard set of “differential varieties” according to the following table:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Differential variety** | Pfs: 1 | Pfs: 2 | Pfs: 3 | Pfs: 4 | Pfs: 5 | Pfs: 6 | Pfs: 7 | Pfs: 8 | Pfs: 10 | Pfs: 11 | Pfs: 12 | Pfs: 13 | Pfs:14 |
| Viroflay | S | S | S | S | S | S | S | S | S | S | S | S | S |
| Resistoflay | R | R | S | S | S | S | S | S | S | S | S | S | S |
| Califlay | R | S | R | S | R | S | S | R | S | R | R | S | R |
| Clermont | R | R | R | R | S | S | S | S | S | S | S | S | S |
| Campania | R | R | R | R | R | S | R | S | S | R | S |   | S |
| Boeing | R | R | R | R | R | R | R | S | S | R | S | R | S |
| Lion | R | R | R | R | R | R | R | R | S | R | R | R | R |
| Lazio | R | R | R | R | R | R | R | R | R | S | S | S | S |
| Whale | R | R | R | R | R | R | R | R | S | R | R | S | R |
| Pigeon | R | R | R | R | R | R | R | R | R | R | R | R | S |

Legend: R= resistance present; S = resistance absent, susceptible

[End of document]