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| Internationaler Verband zum Schutz von Pflanzenzüchtungen |  |

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| Technischer AusschussNeunundfünfzigste TagungGenf, 23. und 24. Oktober 2023 | TC/59/22Original: englischDatum: 29. September 2023 |

Teilüberarbeitung der Prüfungsrichtlinien für Spinat

von einem Sachverständigen aus den Niederlanden erstelltes Dokument

Haftungsausschluss: dieses Dokument gibt nicht die Grundsätze oder eine Anleitung der UPOV wieder

Dieses Dokument wurde mit Hilfe einer maschinellen Übersetzung erstellt, und die Genauigkeit kann nicht garantiert werden. Daher ist der Text in der Originalsprache die einzige authentische Version.

 Zweck dieses Dokuments ist es, einen Vorschlag für eine Teilüberarbeitung der Prüfungsrichtlinien für Spinat (Dokument TG/55/7 Rev. 7) vorzulegen.

 Auf ihrer siebenundfünfzigsten Tagung[[1]](#footnote-2) prüfte die Technische Arbeitsgruppe für Gemüsearten (TWV) einen Vorschlag für eine Teilüberarbeitung der Prüfungsrichtlinien für Spinat (*Spinacea oleracea* L.) auf Grundlage der Dokumente TG/55/7 Rev. 7 und TWV/57/11 “*Partial revision of the Test Guidelines for Spinach*” und schlug folgende Änderungen vor (vergleiche Dokument TWV/57/26 „*Report*“, Absatz 73):

1. Überarbeitung von Merkmal und Erläuterung 17 “Samen: Stacheln (geernteter Samen)”
2. Aufnahme von Merkmalen aus der Merkmalstabelle im Technischen Fragebogen

 Die vorgeschlagenen Änderungen werden nachstehend angebeben. Die vorgeschlagenen Änderungen werden in der Anlage mit Hervorhebung durch Unterstreichen (Einfügungen) und ~~Durchstreichen~~ (Streichungen) angegeben.

Überarbeitung von Merkmal 17 “Samen: Stacheln (geernteter Samen)”

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | Deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| **17.(+)** | **VG** | **Plants: shape of pseudo fruit** | **Plante : forme du pseudo-fruit** | **Pflanze : Form der Pseudofrucht** | **Planta: forma del pseudofruto** |  |  |
| **QN** |  | only plants with round pseudo fruits  | seulement plantes à pseudo-fruits ronds | nur Pflanzen mit runden Pseudofrüchten | sólo plantas con pseudofrutos redondos | Hudson, Resistoflay | 1 |
|  |  | plants with round pseudo fruits and plants with spined pseudo fruits | plantes à pseudo-fruits ronds et plantes à pseudo-fruits épineux | Pflanzen mit runden Pseudofrüchten und Pflanzen mit dornigen Pseudofrüchten | plantas con pseudofrutos redondos y plantas con pseudofrutos espinosos | Baboon, Quinto | 2 |
|  |  | only plants with spined pseudo fruits | seulement plantes à pseudo-fruits épineux | nur Pflanzen mit dornigen Pseudofrüchten | sólo plantas con pseudofrutos espinosos | Anlani, Breedblad Scherpzaad | 3 |

Überarbeitung von Erläuterung 17 “Samen: Stacheln (geernteter Samen)”

Ad. 17: Samen: Stacheln (geernteter Samen)

Die Trennung von Sorten mit Stufe 2 (sowohl Pflanzen mit runden Pseudofrüchten als auch Pflanzen mit mit dornigen Pseudofrüchten) ist eine Folge der für die Erzeugung von Hybriden verwendeten Vaterlinie, die homogen, aber heterozygot für die Form der Pseudofrüchte ist. Diese Linie wird durch Kreuzung und Selektion vermehrt, um sie für dieses Merkmal heterozygot zu halten. Der Grund dafür ist der Schutz bestimmter wertvoller Eigenschaften.

|  |  |
| --- | --- |
|  | spinazie vrouwelijke plant gestekeld zaad bewerkt2000 |
| runde Pseudofrüchte | dornige Pseudofrüchte |

Die zu erfassende Pseudofrüchte entwickeln sich an den Pflanzen, die aus dem eingereichten Saatgut gezogen wurden. Das Gewebe dieser Pseudofrüchte ist dasselbe wie das der F1-Pflanze und somit Teil davon. Das F2-Saatgut, das von diesen Pseudofrüchte umschlossen wird, ist nicht zu erfassen.

Die Erfassungen sollten an der Pflanze erfolgen, wenn die Pseudofrüchte voll entwickelt sind, an weiblichen und monözischen Pflanzen. Sorten können nur aus Pflanzen mit runden Pseudofrüchten (Note 1), nur aus Pflanzen mit dornigen Pseudofrüchten (Note 3) oder sowohl aus Pflanzen mit runden Pseudofrüchten als auch aus Pflanzen mit dornigen Pseudofrüchten (Note 2) bestehen.

Aufnahme von Merkmalen aus der Merkmalstabelle im Technischen Fragebogen

 Folgende Merkmale sind zur Aufnahme im Technischen Fragebogen vorgeschlagen (Hervorhebung durch Unterstreichen):

|  |  |  |
| --- | --- | --- |
| **Char. No.** | **(\*)** | **Characteristic Name** |
| 1 |  | Seedling: length of cotyledon |
| 2 | (\*) | Leaf: anthocyanin coloration of petioles and veins |
| 3 | (\*) | Leaf blade: intensity of green color |
| 4 | (\*) | Leaf blade: blistering |
| 7 |  | Petiole: length |
| 9 | (\*) | Leaf blade: shape (excluding basal lobes) |
| 11 | (\*) | Leaf blade: shape of apex |
| 13 | (\*) | Proportion of monoecious plants |
| 14 | (\*) | Proportion of female plants |
| 15 | (\*) | Proportion of male plants |
| 16 | (\*) | Time of start of bolting (for spring sown crops, 15% of plants) |
| 18.1 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 1 |
| 18.2 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 2 |
| 18.3 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 3 |
| 18.4 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 4 |
| 18.5 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 5 |
| 18.6 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 6 |
| 18.7 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 7 |
| 18.8 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 8 |
| 18.9 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 10 |
| 18.10 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 11 |
| 18.11 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 12 |
| 18.12 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 13 |
| 18.13 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 14 |
| 18.14 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 15 |
| 18.15 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 16 |
| 18.16 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 17 |
| 18.17 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 18 |
| 18.18 |  | Resistance to *Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 19 |
| 19 |  | Resistance to Cucumber mosaic virus (CMV) |

 Die detaillierten Änderungen am Technischen Fragebogen werden in der Anlage mit Hervorhebung durch Unterstreichen (Einfügungen) und ~~Durchstreichen~~ (Streichungen) angegeben (nur auf Englisch).

[Anlage folgt]

VORGESCHLAGENEN ÄNDERUNGEN MIT HERVORHEBUNG

(nur auf Englisch)

Proposed revision of Characteristic 17 “Seed: spines (harvested seed)”

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | Deutsch | español | Example VarietiesExemplesBeispielssortenVariedades ejemplo | Note/Nota |
| **17.(+)** | **VG** | **~~Seed: spines (harvested seed)~~****Plants: shape of pseudo fruit** | **~~Semence : épines (grains récoltés)~~Plante : forme du pseudo-fruit** | **~~Samen: Stacheln (geernteter Samen)~~Pflanze : Form der Pseudofrucht** | **~~Semilla: espinas (semilla cosechada)~~Planta: forma del pseudofruto** |  |  |
| **~~QL~~QN** |  | ~~absent~~ only plants with round pseudo fruits  | ~~absentes~~seulement plantes à pseudo-fruits ronds | ~~fehlend~~nur Pflanzen mit runden Pseudofrüchten | ~~ausentes~~sólo plantas con pseudofrutos redondos | Hudson, Resistoflay | 1 |
|  |  | plants with round pseudo fruits and plants with spined pseudo fruits | plantes à pseudo-fruits ronds et plantes à pseudo-fruits épineux | Pflanzen mit runden Pseudofrüchten und Pflanzen mit dornigen Pseudofrüchten | plantas con pseudofrutos redondos y plantas con pseudofrutos espinosos | Baboon, Quinto | 2 |
|  |  | ~~present~~only plants with spined pseudo fruits | ~~présentes~~seulement plantes à pseudo-fruits épineux | ~~vorhanden~~nur Pflanzen mit dornigen Pseudofrüchten | ~~presentes~~sólo plantas con pseudofrutos espinosos | Anlani, Breedblad Scherpzaad, ~~Marimba~~ | ~~9~~ 3 |

Proposed revision of explanation Ad. 17 “Seed: spines (harvested seed)”

Ad. 17: ~~Seed: spines (harvested seed)~~ Plants: shape of pseudo fruit

The segregation of varieties with state of expression 2 (both plants with round pseudo fruits as well as plants with spined pseudo fruits) is a consequence of the fatherline used for the production of hybrids which is homogenic but heterozygous for the shape of the pseudo fruit. This line is propagated by crossing and selection to keep it heterozygous for this trait. The reason for this is to protect certain valuable traits.

|  |  |
| --- | --- |
|  | spinazie vrouwelijke plant gestekeld zaad bewerkt2000 |
| ~~1~~ | ~~9~~  |
| ~~absent~~ round pseudo fruit | ~~present~~spined pseudo fruit |

The pseudo fruits to be assessed are developing on the plants grown of the submitted seed. The tissue of these pseudo fruits is the same as and thus part of the F1 plant. The F2 seed, enclosed by this pseudo fruit is not subject to observation.

Observations should be made on the plant when the pseudo fruits are fully developed, on female and monoecious plants. Varieties may consist of only plants with round pseudo fruits (note 1), only plants with spined pseudo fruits (note 3) or of both plants with round pseudo fruits as well as plants with spined pseudo fruits (note 2).

## Proposed inclusion of characteristics from the Table of Characteristics in the Technical Questionnaire

| TECHNICAL QUESTIONNAIRE | Page {x} of {y} | Reference Number: |
| --- | --- | --- |
|  |  |  |
| 5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds). |
|  | Characteristics | Example Varieties | Note |
| **5.1(1)** | **Seedling: length of cotyledon** |  |  |
|  | very short |  | 1[ ] |
|  | very short to short |  | 2[ ] |
|  | short | Nores | 3[ ] |
|  | short to medium |  | 4[ ] |
|  | medium |  | 5[ ] |
|  | medium to long |  | 6[ ] |
|  | long | Breedblad Scherpzaad, Resistoflay | 7[ ] |
|  | long to very long |  | 8[ ] |
|  | very long |  | 9[ ] |
| **5.2(2)** | **Leaf: anthocyanin coloration of petioles and veins** |  |  |
|  | absent  | Resistoflay, Nores | 1[ ] |
|  | present | Red Cardinal, Reddy | 2[ ] |
| **5.~~1~~ 3(3)** | Leaf blade: intensity of green color |  |  |
|  | very light |  | 1[ ] |
|  | very light to light |  | 2[ ] |
|  | light | Monet, Viroflay, Winterreuzen | 3[ ] |
|  | light to medium |  | 4[ ] |
|  | medium | Butterflay, Monnopa | 5[ ] |
|  | medium to dark |  | 6[ ] |
|  | dark | Imola, Lavewa, Nores | 7[ ] |
|  | dark to very dark |  | 8[ ] |
|  | very dark | Lorelay, Mystic | 9[ ] |
|  | Characteristics | Example Varieties | Note |
| **5.~~2~~ 4(4)** | Leaf blade: blistering |  |  |
|  | absent or very weak | Matador | 1[ ] |
|  | very weak to weak |  | 2[ ] |
|  | weak | Polka, Tarpy | 3[ ] |
|  | weak to medium |  | 4[ ] |
|  | medium | Butterflay, Koala, Mystic  | 5[ ] |
|  | medium to strong |  | 6[ ] |
|  | strong | Giraffe, Rhythm | 7[ ] |
|  | strong to very strong |  | 8[ ] |
|  | very strong | Menorca, Revolver | 9[ ] |
| **5.5(7)** | **Petiole: length** |  |  |
|  | very short |  | 1[ ] |
|  | very short to short |  | 2[ ] |
|  | short | Imola, Mystic | 3[ ] |
|  | short to medium |  | 4[ ] |
|  | medium | Butterflay, Giraffe | 5[ ] |
|  | medium to long |  | 6[ ] |
|  | long | Grappa, Resistoflay | 7[ ] |
|  | long to very long |  | 8[ ] |
|  | very long |  | 9[ ] |
| **5.6(9)** | **Leaf blade: shape (excluding basal lobes)** |  |  |
|  | triangular | Grappa, Maracas | 1[ ] |
|  | medium ovate | Lavewa, Resistoflay | 2[ ] |
|  | broad ovate | Butterflay | 3[ ] |
|  | medium elliptic |  | 4[ ] |
|  | broad elliptic | Nores | 5[ ] |
|  | circular | Giraffe | 6[ ] |
| **5.~~3~~ 7(11)** | Leaf blade: shape of apex |  |  |
|  | acute | Grappa, Rhythm | 1[ ] |
|  | obtuse | Resistoflay | 2[ ] |
|  | rounded | Imola, Nores | 3[ ] |
|  | Characteristics | Example Varieties | Note |
| **5.~~4~~ 8(13)** | **Proportion of monoecious plants** |  |  |
|  | absent or very low | Medania | 1[ ] |
|  | very low to low |  | 2[ ] |
|  | low | Matador | 3[ ] |
|  | low to medium |  | 4[ ] |
|  | medium | Figo | 5[ ] |
|  | medium to high |  | 6[ ] |
|  | high | Giraffe, Lazio | 7[ ] |
|  | high to very high |  | 8[ ] |
|  | very high | Monnopa | 9[ ] |
| **5.~~5~~ 9(14)** | **Proportion of female plants** |  |  |
|  | absent or very low | Monnopa | 1[ ] |
|  | very low to low |  | 2[ ] |
|  | low | Giraffe | 3[ ] |
|  | low to medium |  | 4[ ] |
|  | medium | Figo, Medania  | 5[ ] |
|  | medium to high |  | 6[ ] |
|  | high | Parrot | 7[ ] |
|  | high to very high |  | 8[ ] |
|  | very high |  | 9[ ] |
| **5.~~6~~ 10(15)** | **Proportion of male plants** |  |  |
|  | absent or very low | Monnopa, Parrot | 1[ ] |
|  | very low to low |  | 2[ ] |
|  | low |  | 3[ ] |
|  | low to medium |  | 4[ ] |
|  | medium | Medania | 5[ ] |
|  | medium to high |  | 6[ ] |
|  | high |  | 7[ ] |
|  | high to very high |  | 8[ ] |
|  | very high |  | 9[ ] |
|  | Characteristics | Example Varieties | Note |
| **5.~~7~~ 11(16)** | **Time of start of bolting (for spring sown crops, 15% of plants)** |  |  |
|  | very early | Figo, Maracas | 1[ ] |
|  | very early to early |  | 2[ ] |
|  | early | Bandola, Viroflay | 3[ ] |
|  | early to medium |  | 4[ ] |
|  | medium | Matador, Monnopa | 5[ ] |
|  | medium to late |  | 6[ ] |
|  | late | Grappa, Medania, Revolver | 7[ ] |
|  | late to very late |  | 8[ ] |
|  | very late | Chica, Lavewa | 9[ ] |
| **5.~~8~~ 12(18.1)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 1** |  |  |
|  | absent | Viroflay, Winterreuzen | 1 [   ] |
|  | present | Califlay, Resistoflay | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~9~~ 13(18.2)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 2** |  |  |
|  | absent | Califlay | 1 [   ] |
|  | present | Resistoflay | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~10~~ 14(18.3)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 3** |  |  |
|  | absent | Resistoflay | 1 [   ] |
|  | present | Califlay, Clermont | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~11~~ 15(18.4)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 4** |  |  |
|  | absent | Califlay | 1 [   ] |
|  | present | Clermont | 9 [   ] |
|  | not tested |  | [   ] |
|  | Characteristics | Example Varieties | Note |
| **5.~~12~~ 16(18.5)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 5** |  |  |
|  | absent | Clermont | 1 [   ] |
|  | present | Califlay, Campania | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~13~~ 17(18.6)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 6** |  |  |
|  | absent | Califlay, Campania | 1 [   ] |
|  | present | Boeing | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~14~~ 18(18.7)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 7** |  |  |
|  | absent | Califlay | 1 [   ] |
|  | present | Campania | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~15~~ 19(18.8)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 8** |  |  |
|  | absent | Boeing, Campania | 1 [   ] |
|  | present | Lazio, Lion | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~16~~ 20(18.9)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 10** |  |  |
|  | absent | Boeing, Campania, Lion | 1 [   ] |
|  | present | Lazio | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~17~~ 21(18.10)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 11** |  |  |
|  | absent | Lazio | 1 [   ] |
|  | present | Boeing, Califlay, Campania, Lion | 9 [   ] |
|  | not tested |  | [   ] |
|  | Characteristics | Example Varieties | Note |
| **5.~~18~~ 22(18.11)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 12** |  |  |
|  | absent | Boeing, Campania | 1 [   ] |
|  | present | Finch, Pigeon, Red Kitten, Zebu | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~19~~ 23(18.12)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 13** |  |  |
|  | absent | Campania | 1 [   ] |
|  | present | Boeing, Lion | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~20~~ 24(18.13)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 14** |  |  |
|  | absent | Campania, Pigeon  | 1 [   ] |
|  | present | Califlay, Lion | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~21~~ 25(18.14)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 15** |  |  |
|  | absent | Caladonia | 1 [   ] |
|  | present | Pigeon | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~22~~ 26(18.15)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 16** |  |  |
|  | absent | Meerkat | 1 [   ] |
|  | present | Caladonia | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~23~~ 27(18.16)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 17** |  |  |
|  | absent | Pigeon | 1 [   ] |
|  | present | Hydrus | 9 [   ] |
|  | not tested |  | [   ] |
| **5.~~24~~ 28(18.17)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 18** |  |  |
|  | absent | Meerkat | 1 [   ] |
|  | present | Caladonia | 9 [   ] |
|  | not tested |  | [   ] |
|  | Characteristics | Example Varieties | Note |
| **5.~~25~~ 27(18.18)** | **Resistance to** ***Peronospora effusa* (Pe) (ex *Peronospora farinosa* f. sp. *spinaciae*) Race Pe (ex Pfs): 19** |  |  |
|  | absent | Pigeon | 1 [   ] |
|  | present | Hydrus | 9 [   ] |
|  | not tested |  | [   ] |
| **5.28(19)** | **Resistance to Cucumber mosaic virus (CMV)** |  |  |
|  | absent | Polka | 1 [   ] |
|  | present | Symphony | 9 [   ] |
|  | not tested |  | [   ] |

[Ende der Anlage und des Dokuments]

1. vom 1. bis 5. Mai 2023 in Antalya, Türkiye. [↑](#footnote-ref-2)