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| Unión Internacional para la Protección de las Obtenciones Vegetales |  |

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| Comité Técnico  Quincuagésima novena sesión  Ginebra, 23 y 24 de octubre de 2023 | TC/59/24.  Original: Inglés  Fecha: 29 de septiembre de 2023 |

Revisión parcial de las directrices de examen del CALABACÍN

Documento preparado por un experto de Francia

Descargo de responsabilidad: el presente documento no constituye un documento de política u orientación de la UPOV

El presente documento tiene por finalidad exponer una propuesta de revisión parcial de las directrices de examen del calabacín (documento TG/119/4 Corr. 2).

En su quincuagésima séptima sesión[[1]](#footnote-2), el Grupo de Trabajo Técnico sobre Hortalizas (TWV) examinó una propuesta de revisión parcial de las directrices de examen del calabacín (*Cucurbita pepo*L.) conforme a los documentos TG/119/4 Corr. 2 y TWV/57/23 “*Partial revision of the Test Guidelines for Vegetable Marrow, Squash*” (Revisión parcial de las directrices de examen del calabacín) y propuso efectuar las modificaciones que se exponen a continuación (véase el párrafo 76 del documento TWV/57/26 “*Report*” (Informe)):

1. Adición del nuevo carácter 82 “Resistencia al virus del mosaico amarillo del calabacín (ZYMV)” al final de la tabla de caracteres
2. Adición de una explicación Ad. 82 “Resistencia al virus del mosaico amarillo del calabacín (ZYMV)” en el capítulo 8.2 “Explicaciones relativas a caracteres individuales”
3. Adición del nuevo carácter 83 “Resistencia al virus del mosaico de la sandía (WMV)” al final de la tabla de caracteres
4. Adición de una explicación Ad. 83 “Resistencia al virus del mosaico de la sandía (WMV)” en el capítulo 8.2 “Explicaciones relativas a caracteres individuales”
5. Inclusión de caracteres de la tabla de caracteres en el cuestionario técnico (solo en inglés)

Los cambios propuestos se indican a continuación.

Propuesta de adición del nuevo carácter 82 “Resistencia al virus del mosaico amarillo del calabacín (ZYMV)” al final de la tabla de caracteres

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Español | français | Deutsch | español | Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo | Note/ Nota |
| **82.**  **(+)** | VS | Resistance to *Zucchini yellow mosaic virus* (ZYMV) | **Resistance au *Zucchini yellow mosaic virus* (ZYMV)** | **Resistenz gegen *Zucchini yellow mosaic virus* (ZYMV)** | **Resistencia al virus del mosaico amarillo del calabacín(ZYMV)** |  |  |
| **QN** |  | absent or low | absente ou faible | fehlend oder gering | ausente o baja | Cora | 1 |
|  |  | medium | moyenne | mittel | media | Mirza | 2 |
|  |  | high | élevée | hoch | alta | Mikonos | 3 |

Propuesta de adición de una explicación Ad. 82 “Resistencia al virus del mosaico amarillo del calabacín (ZYMV)” en el capítulo 8.2 “Explicaciones relativas a caracteres individuales”

Ad. 82: Resistencia al virus del mosaico amarillo del calabacín(ZYMV)

|  |  |  |
| --- | --- | --- |
| 1. | Agente patógeno | Virus del mosaico amarillo del calabacín(ZYMV) |
| 2. | Estado de cuarentena | No |
| 3. | Especie huésped | *Cucurbita pepo*L. |
| 4. | Fuente del inóculo | GEVES (FR)[[2]](#footnote-3) |
| 5. | Aislado | por ejemplo, cepa E9  = MAT/REF/06-08-02-02 |
| 6. | Establecimiento de la identidad del aislado | - |
| 7. | Establecimiento de la capacidad patógena | Síntomas en variedades de calabacín susceptibles |
| 8. | Multiplicación del inóculo |  |
| 8.1 | Medio de multiplicación | Planta viva |
| 8.2 | Variedad para la multiplicación | por ejemplo, Cora |
| 8.3 | Estado de desarrollo en el momento de la inoculación | - |
| 8.4 | Medio de inoculación | - |
| 8.5 | Método de inoculación | - |
| 8.6 | Cosecha del inóculo | - |
| 8.7 | Comprobación del inóculo cosechado | - |
| 8.8 | Período de conservación/viabilidad del inóculo | - |
| 9. | Formato del examen |  |
| 9.1 | Número de plantas por genotipo | Al menos 20 |
| 9.2 | Número de réplicas | Al menos 2 (por ejemplo, 2 x 10 plantas) |
| 9.3 | Variedades de control | Para ilustrar y definir los niveles de la UPOV   * resistencia entre ausente y baja (=susceptible): Cora * resistencia intermedia: Mirza (umbral bajo de nivel de resistencia intermedia): * resistencia alta: Mikonos (umbral bajo de nivel de resistencia alta): |
| 9.4 | Diseño del ensayo | añadir plantas sin inocular |
| 9.5 | Instalación del ensayo | Sala climatizada o invernadero |
| 9.6 | Temperatura | por ejemplo, 22 °C o 24 °C/18 °C |
| 9.7 | Luz | 12-16 horas |
| 9.8 | Estación |  |
| 9.9 | Medidas especiales | mantener el invernadero libre de áfidos |
| 10. | Inoculación |  |
| 10.1 | Preparación del inóculo | 1 g de hojas con síntomas con 4 ml de PBS con carborundum (400 mg) y carbón activado (400 mg) o tampón similar, homogeneizar |
| 10.2 | Cuantificación del inóculo |  |
| 10.3 | Estado de desarrollo en el momento de la inoculación | Primera hoja desplegada |
| 10.4 | Método de inoculación | Frotación de cotiledones con una suspensión del virus  Opcionalmente: repetir la inoculación después de 3 días |
| 10.5 | Primera observación | 14 días después de la inoculación |
| 10.6 | Segunda observación | - |
| 10.7 | Observaciones finales | 21 días después de la inoculación |
| 11. | Observaciones |  |
| 11.1 | Método | Observación visual |
| 11.2 | Escala de observación | Clase 0: sin síntomas  Clase 1: algunas manchas cloróticas pequeñas  Clase 2: muchas manchas cloróticas  Clase 3: zonas cloróticas extensas (algunas manchas en hojas jóvenes)  Clase 4: mosaico y bandas débiles en los nervios  Clase 5: deformación y bandas en los nervios |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | | | | | | 0: sin síntomas | | 1: algunas manchas cloróticas pequeñas | | 2: muchas manchas cloróticas | |  | | | | | | 3: zonas cloróticas extensas (algunas manchas en hojas jóvenes) | 4: mosaico y bandas débiles en los nervios | | 5: deformación y bandas en los nervios | |   Cortesía de GEVES-SNES | | |
| 11.3 | Validación del ensayo | El control de alta resistencia (Mikonos), el control de resistencia intermedia (Mirza) y el control de resistencia entre ausente y baja (=susceptible) (Cora) son necesarios para validar la agresividad del ensayo.  Los resultados deben compararse con los de los controles, a partir del índice de la enfermedad y la distribución de las plantas en las distintas clases. |
| 11.4 | Fuera de tipo | - |
| 12. | Interpretación de los datos en función de los niveles de los caracteres de la UPOV | - Nota 1: La mayoría de las plantas están en la clase 4 o 5 (resistencia entre ausente y baja = susceptible)  - Nota 2: La mayoría de las plantas están en la clase 2 o 3 (resistencia intermedia)  - Nota 3: La mayoría de las plantas están en la clase 0 o 1 (resistencia alta)  Las variedades con una resistencia inferior a Mirza (nota 2) se considerarán como nota 1. Las variedades con una resistencia inferior a Mikonos (nota 3) se considerarán como nota 2.  Se puede usar un análisis estadístico adicional que complete la observación bruta del fitopatólogo para la evaluación de la homogeneidad y la determinación de la posición relativa con respecto a los resultados de los controles. |
| Resistencia a ZYMV:  alta  Cora  Mikonos  ausente o baja  Mirza  intermedia | | |
| 13. | Puntos de control esenciales | La fecha de notación puede adaptarse según la expresión de los síntomas en los controles.  Las condiciones ambientales pueden afectar a la expresión de los síntomas a lo largo del tiempo. En ese caso puede ser necesaria una segunda notación.  Los áfidos pueden transmitir el ZYMV y otros virus que pueden contaminar la cepa de ZYMV, de modo que el ensayo ha de realizarse en un compartimento libre de áfidos. |

Propuesta de adición del nuevo carácter 83 “Resistencia al virus del mosaico de la sandía (WMV)” al final de la tabla de caracteres

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | English | français | Deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
| 83.  **(+)** | VS | Resistance to *Watermelon mosaic virus* (WMV) | **Resistance au *Watermelon mosaic virus* (WMV)** | **Resistenz gegen *Watermelon mosaic virus* (WMV)** | **Resistencia a *Watermelon mosaic virus* (WMV)** |  |  |
| QL |  | ausente | absente | fehlend | ausente | Cora | 1 |
|  |  | presente | présente | vorhanden | presente | Mikonos, Sofia, Syros | 9 |

Propuesta de adición de una explicación Ad. 83 “Resistencia al virus del mosaico de la sandía (WMV)” en el capítulo 8.2 “Explicaciones relativas a caracteres individuales”

Ad. 83: Resistencia al virus del mosaico de la sandía (WMV)

|  |  |  |
| --- | --- | --- |
| 1. | Agente patógeno | Resistencia al virus del mosaico de la sandía (WMV) |
| 2. | Estado de cuarentena | No |
| 3. | Especie huésped | *Cucurbita pepo*L. |
| 4. | Fuente del inóculo | GEVES (FR)[[3]](#footnote-4) |
| 5. | Aislado | por ejemplo, cepa LL1A  = MAT/REF/06-09-01 2 |
| 6. | Establecimiento de la identidad del aislado | - |
| 7. | Establecimiento de la capacidad patógena | Síntomas en variedades de calabacín susceptibles |
| 8. | Multiplicación del inóculo |  |
| 8.1 | Medio de multiplicación | Planta viva |
| 8.2 | Variedad para la multiplicación | por ejemplo, Cora |
| 8.3 | Estado de desarrollo en el momento de la inoculación | - |
| 8.4 | Medio de inoculación | - |
| 8.5 | Método de inoculación | - |
| 8.6 | Cosecha del inóculo | - |
| 8.7 | Comprobación del inóculo cosechado | - |
| 8.8 | Período de conservación/viabilidad del inóculo | - |
| 9. | Formato del examen |  |
| 9.1 | Número de plantas por genotipo | Al menos 20 |
| 9.2 | Número de réplicas | Al menos 2 (por ejemplo, 2 x 10 plantas) |
| 9.3 | Variedades de control | Para ilustrar las notas de la UPOV:   * resistencia ausente: Cora * resistencia presente: Sofia (nivel de resistencia mínimo)   Mikonos y Syros tienen un nivel de resistencia superior al de Sofia, pero no lo suficiente para ilustrar una resistencia alta. |
| 9.4 | Diseño del ensayo | añadir plantas sin inocular |
| 9.5 | Instalación del ensayo | Sala climatizada o invernadero |
| 9.6 | Temperatura | por ejemplo, 22 °C o 24 °C/18 °C |
| 9.7 | Luz | 12-16 horas |
| 9.8 | Estación |  |
| 9.9 | Medidas especiales | Mantener el invernadero libre de áfidos |
| 10. | Inoculación |  |
| 10.1 | Preparación del inóculo | 1 g de hojas con síntomas con 4 ml de PBS con carborundum (400 mg) y carbón activado (400 mg) o tampón similar, homogeneizar |
| 10.2 | Cuantificación del inóculo | - |
| 10.3 | Estado de desarrollo en el momento de la inoculación | Primera hoja desplegada |
| 10.4 | Método de inoculación | Frotación de cotiledones con una suspensión del virus  Opcionalmente: repetir la inoculación después de 3 días |
| 10.5 | Primera observación | 14 días después de la inoculación |
| 10.6 | Segunda observación | - |
| 10.7 | Observaciones finales | 21 días después de la inoculación |
| 11. | Observaciones |  |
| 11.1 | Método | Observación visual |
| 11.2 | Escala de observación | Clase 0: sin síntomas  Clase 1: algunas manchas cloróticas pequeñas  Clase 2: muchas manchas cloróticas  Clase 3: zonas cloróticas extensas (algunas manchas en hojas jóvenes)  Clase 4: mosaico, bandas débiles en los nervios  Clase 5: deformación y bandas en los nervios |
| |  |  |  | | --- | --- | --- | |  | | | | 0: sin síntomas | 1: algunas manchas cloróticas pequeñas | 2: muchas manchas cloróticas | |  | | | | 3: zonas cloróticas extensas (algunas manchas en hojas jóvenes) | 4: mosaico, bandas débiles en los nervios | 5: deformación y bandas en los nervios |   Cortesía de GEVES-SNES | | |
| 11.3 | Validación del ensayo | En los tres controles: Cora, Sofia, Mikonos o Syros  La presencia de Syros o Mikonos (y no solo Sofia) es necesaria para validar la agresividad del ensayo.  Los resultados deben compararse con los de los controles, a partir del índice de la enfermedad y la distribución de las plantas en las distintas clases. |
| 11.4 | Fuera de tipo | - |
| 12. | Interpretación de los datos en función de los niveles de los caracteres de la UPOV | Nota 1: La mayoría de las plantas están en la clase 4 o 5 (se debe considerar resistencia ausente o baja)  Nota 9: La mayoría de las plantas están en la clase 0, 1, 2 o 3 (resistencia presente - con más o menos intensidad)  Las variedades que presenten un nivel de resistencia inferior a Sofia (nota 9) se considerarán como nota 1  Se puede usar un análisis estadístico adicional que complete la observación bruta del fitopatólogo para la evaluación de la homogeneidad y la determinación de la posición relativa con respecto a los resultados de los controles. |
| Resistencia a WMV: | | |
| 13. | Puntos de control esenciales | La fecha de notación puede adaptarse según la expresión de los síntomas en los controles.  Las condiciones ambientales pueden afectar a la expresión de los síntomas a lo largo del tiempo. En ese caso puede ser necesaria una segunda notación.  Los áfidos pueden transmitir el WMV y otros virus que pueden contaminar la cepa de WMV, de modo que el ensayo ha de realizarse en un compartimento libre de áfidos. |

Cora

Mikonos, Syros

1 - ausente

Sofia

9 - presente

Inclusión de caracteres de la tabla de caracteres en el Cuestionario Técnico

Se propone incluir los siguientes caracteres en el cuestionario técnico (las propuestas de inclusión se indican como texto resaltado y subrayado):

|  |  |  |
| --- | --- | --- |
| **Char. No.** | **(\*)** | **Characteristic Name** |
|  |  | Types of edible varieties: Fruit: type |
| 4 | (\*) | Plant: growth habit |
| 5 | (\*) | Plant: branching |
| 8 | (\*) | Stem: color |
| 9 |  | Stem: intensity of green color |
| 13 | (\*) | Leaf blade: incisions |
| 15 | (\*) | Leaf blade: silvery patches |
| 16 |  | Leaf blade: relative area covered by silvery patches |
| 17 |  | Petiole: length |
| 26 |  | Only Zucchini and Rounded Zucchini type varieties: Young fruit: general shape |
| 27 | (\*) | Young fruit: main color of skin (excluding color of ribs or grooves) |
| 29 |  | Only varieties with green color of skin: Young fruit: intensity of green color of skin (as for 27) |
| 30 | (\*) | Fruit: general shape |
| 31.1 | (\*) | Only Scallop type varieties: Fruit: length |
| 31.2 | (\*) | Only Acorn type varieties: Fruit: length |
| 31.3 | (\*) | Only Neck type varieties: Fruit: length |
| 31.4 | (\*) | Only Zucchini type varieties: Fruit: length |
| 32.1 |  | Only Scallop type varieties: Fruit: maximum diameter |
| 32.2 |  | Only Acorn type varieties: Fruit: maximum diameter |
| 32.3 |  | Only Zucchini type varieties: Fruit: maximum diameter |
| 34.1 | (\*) | Only Pumpkin type varieties: Fruit: size |
| 34.2 | (\*) | Only Rondini type varieties: Fruit: size |
| 46 | (\*) | Fruit: grooves |
| 50 | (\*) | Fruit: main color of skin (excluding color of dots, patches, stripes and bands) |
| 51 |  | Only varieties with yellow color of skin: Fruit: intensity of yellow color of skin (as for 50) |
| 52 |  | Only varieties with green color of skin: Fruit: intensity of green color of skin (as for 50) |
| 54 |  | Fruit: stripes in grooves |
| 57 |  | Fruit: dots |
| 59 |  | Fruit: secondary green color between ribs (excluding dots) |
| 61 |  | Fruit: distribution of secondary green color between ribs |
| 69 | (\*) | Ripe fruit: main color of skin (excluding color of mottles, patches, stripes and bands) |
| 71 | (\*) | Ripe fruit: secondary color of skin (as for 69) |
| 74 | (\*) | Ripe fruit: color of flesh |
| 82 |  | Resistance to *Zucchini yellow mosaic virus* (ZYMV) |
| 83 |  | Resistance to *Watermelon mosaic virus* (WMV) |

| 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 the Test Guidelines; please mark the state of expression which best corresponds). | | | | | | | | | |
|  | | Characteristics | | | Example Varieties | | | Note | |
| **5.1** | | **Types of edible varieties: Fruit: type** | | |  | | |  | |
|  | | Pumpkin | | | Halloween, Little Boo, Small Sugar | | | 1[ ] | |
|  | | Miniature Pumpkin | | | Jack Be Little | | | 2[ ] | |
|  | | Scallop | | | Patty Pan, Scallopini | | | 3[ ] | |
|  | | Acorn | | | Table Queen | | | 4[ ] | |
|  | | Neck | | | Early Prolific Straightneck, Yellow Summer Crookneck | | | 5[ ] | |
|  | | Zucchini | | | Ambassador, Beiruti, Clarita, Elite, Ibis, Romano | | | 6[ ] | |
|  | | Rounded Zucchini | | | De Nice à fruit rond, Redondo | | | 7[ ] | |
|  | | Delicata | | | Delicata | | | 8[ ] | |
|  | | Spaghetti Squash | | | Pasta, Vegetable Spaghetti | | | 9[ ] | |
|  | | Rondini | | | Little Gem | | | 10[ ] | |
|  | | Ölkürbis | | | Markant | | | 11[ ] | |
|  | | Other | | |  | | | 12[ ] | |
| **5.2 (4)** | | | **Plant: growth habit** | | |  | | |  |
|  | | | bush | | | Greyzini | | | 1[ ] |
|  | | | semi-trailing | | | Cinderella, Everest, Twickers | | | 2[ ] |
|  | | | trailing | | | Becky, Long Green Trailing | | | 3[ ] |
| **5.3 (5)** | | | Plant: branching | | |  | | |  |
|  | | | absent | | | Goldi | | | 1[ ] |
|  | | | present | | | Patty Green Tint | | | 9[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.4 (8)** | | | **Stem: color** | | |  | | |  |
|  | | | completely green | | | Becky | | | 1[ ] |
|  | | | partly green and partly yellow | | | Autumn Gold | | | 2[ ] |
| **5.5 (9)** | | | **Stem: intensity of green color** | | |  | | |  |
|  | | | very light | | | Maayan | | | 1[ ] |
|  | | | very light to light | | |  | | | 2[ ] |
|  | | | light | | | Bianchini | | | 3[ ] |
|  | | | light to medium | | |  | | | 4[ ] |
|  | | | medium | | | Cinderella | | | 5[ ] |
|  | | | medium to dark | | |  | | | 6[ ] |
|  | | | dark | | | Greyzini | | | 7[ ] |
|  | | | dark to very dark | | |  | | | 8[ ] |
|  | | | very dark | | | Goldrush | | | 9[ ] |
| **5.6 (13)** | | | Leaf blade: incisions | | |  | | |  |
|  | | | absent or very shallow | | | Scallopini | | | 1[ ] |
|  | | | very shallow to shallow | | |  | | | 2[ ] |
|  | | | shallow | | | Everest | | | 3[ ] |
|  | | | shallow to medium | | |  | | | 4[ ] |
|  | | | medium | | | Jackpot | | | 5[ ] |
|  | | | medium to deep | | |  | | | 6[ ] |
|  | | | deep | | | Civac | | | 7[ ] |
|  | | | deep to very deep | | |  | | | 8[ ] |
|  | | | very deep | | | Isotta | | | 9[ ] |
| **5.~~4~~ 7  (15)** | | | **Leaf blade: silvery patches** | | |  | | |  |
|  | | | absent | | | Black Forest, Scallopini | | | 1[ ] |
|  | | | present | | | Civac | | | 9[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.8 (16)** | | | Leaf blade: relative area covered by silvery patches | | |  | | |  |
|  | | | very small | | | Albo | | | 1[ ] |
|  | | | very small to small | | |  | | | 2[ ] |
|  | | | small | | | Aziz | | | 3[ ] |
|  | | | small to medium | | |  | | | 4[ ] |
|  | | | medium | | | Ambassador | | | 5[ ] |
|  | | | medium to large | | |  | | | 6[ ] |
|  | | | large | | | Cora | | | 7[ ] |
|  | | | large to very large | | |  | | | 8[ ] |
|  | | | very large | | | Summerstar | | | 9[ ] |
| **5.9 (17)** | | | **Petiole: length** | | |  | | |  |
|  | | | very short | | |  | | | 1[ ] |
|  | | | very short to short | | |  | | | 2[ ] |
|  | | | short | | | Jack be Little, Karioka | | | 3[ ] |
|  | | | short to medium | | |  | | | 4[ ] |
|  | | | medium | | | Goldi | | | 5[ ] |
|  | | | medium to long | | |  | | | 6[ ] |
|  | | | long | | | Autumn Gold, Baikal | | | 7[ ] |
|  | | | long to very long | | |  | | | 8[ ] |
|  | | | very long | | |  | | | 9[ ] |
| **5.10 (26)** | | | Only Zucchini and Rounded Zucchini type varieties: Young fruit: general shape | | |  | | |  |
|  | | | globular | | | De Nice à Fruit Rond | | | 1[ ] |
|  | | | pear shaped | | | Clarita | | | 2[ ] |
|  | | | tapered elliptical | | | Top Kapi | | | 3[ ] |
|  | | | elliptical | | | Table Dainty | | | 4[ ] |
|  | | | cylindrical | | | Ambassador, Ibis | | | 5[ ] |
|  | | | tapered cylindrical | | |  | | | 6[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.11 (27)** | | | Young fruit: main color of skin (excluding color of ribs or grooves) | | |  | | |  |
|  | | | white | | | White Bush Scallop | | | 1[ ] |
|  | | | cream | | | Tivoli | | | 2[ ] |
|  | | | yellow | | | Goldi | | | 3[ ] |
|  | | | green | | | Elite, Opal, Romano | | | 4[ ] |
|  | | | partly white and partly yellow | | |  | | | 5[ ] |
|  | | | partly white and partly green | | |  | | | 6[ ] |
|  | | | partly yellow and partly green | | | Sunburst, Zephyr | | | 7[ ] |
| **5.12 (29)** | | | **Only varieties with green color of skin: Young fruit: intensity of green color of skin (as for 27)** | | |  | | |  |
|  | | | very light | | | Clarita, Goya, Patty Green Tint | | | 1[ ] |
|  | | | very light to light | | |  | | | 2[ ] |
|  | | | light | | | Arlika | | | 3[ ] |
|  | | | light to very light | | |  | | | 4[ ] |
|  | | | medium | | | Baccara | | | 5[ ] |
|  | | | medium to dark | | |  | | | 6[ ] |
|  | | | dark | | | Arlesa, Sandra, Zefira | | | 7[ ] |
|  | | | dark to very dark | | |  | | | 8[ ] |
|  | | | very dark | | | Carnaval, Corsair | | | 9[ ] |
| **5.13 (30)** | | | Fruit: general shape | | |  | | |  |
|  | | | disc shaped | | |  | | | 1[ ] |
|  | | | transverse elliptical | | |  | | | 2[ ] |
|  | | | transverse broad elliptical | | |  | | | 3[ ] |
|  | | | globular | | |  | | | 4[ ] |
|  | | | top shaped | | |  | | | 5[ ] |
|  | | | broad elliptical | | |  | | | 6[ ] |
|  | | | ovate | | |  | | | 7[ ] |
|  | | | elliptical | | |  | | | 8[ ] |
|  | | | cylindrical | | |  | | | 9[ ] |
|  | | | pear shaped | | |  | | | 10[ ] |
|  | | | bottle shaped | | |  | | | 11[ ] |
|  | | | club shaped | | |  | | | 12[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.14 (31.1)** | | | Only Scallop type varieties: Fruit: length | | |  | | |  |
|  | | | very short | | |  | | | 1[ ] |
|  | | | very short to short | | |  | | | 2[ ] |
|  | | | short | | | Bennings Green Tint | | | 3[ ] |
|  | | | short to medium | | |  | | | 4[ ] |
|  | | | medium | | | Sunburst | | | 5[ ] |
|  | | | medium to long | | |  | | | 6[ ] |
|  | | | long | | | Yellow Bush Scallop | | | 7[ ] |
|  | | | long to very long | | |  | | | 8[ ] |
|  | | | very long | | |  | | | 9[ ] |
| **5.15 (31.2)** | | | Only Acorn type varieties: Fruit: length | | |  | | |  |
|  | | | very short | | |  | | | 1[ ] |
|  | | | very short to short | | |  | | | 2[ ] |
|  | | | short | | | Table Gold | | | 3[ ] |
|  | | | short to medium | | |  | | | 4[ ] |
|  | | | medium | | | Swan White Acorn | | | 5[ ] |
|  | | | medium to long | | |  | | | 6[ ] |
|  | | | long | | | Ebony Table Queen | | | 7[ ] |
|  | | | long to very long | | |  | | | 8[ ] |
|  | | | very long | | |  | | | 9[ ] |
| **5.16 (31.3)** | | | Only Neck type varieties: Fruit: length | | |  | | |  |
|  | | | very short | | |  | | | 1[ ] |
|  | | | very short to short | | |  | | | 2[ ] |
|  | | | short | | | Wryneck | | | 3[ ] |
|  | | | short to medium | | |  | | | 4[ ] |
|  | | | medium | | | Yellow Summer Crookneck | | | 5[ ] |
|  | | | medium to long | | |  | | | 6[ ] |
|  | | | long | | | Sunbar | | | 7[ ] |
|  | | | long to very long | | |  | | | 8[ ] |
|  | | | very long | | |  | | | 9[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.17 (31.4)** | | | Only Zucchini type varieties: Fruit: length | | |  | | |  |
|  | | | very short | | | Jericho | | | 1[ ] |
|  | | | very short to short | | |  | | | 2[ ] |
|  | | | short | | | Jedida | | | 3[ ] |
|  | | | short to medium | | |  | | | 4[ ] |
|  | | | medium | | | Cora | | | 5[ ] |
|  | | | medium to long | | |  | | | 6[ ] |
|  | | | long | | | Carlotta | | | 7[ ] |
|  | | | long to very long | | |  | | | 8[ ] |
|  | | | very long | | | Altea | | | 9[ ] |
| **5.18 (32.1)** | | | Only Scallop type varieties: Fruit: maximum diameter | | |  | | |  |
|  | | | very small | | |  | | | 1[ ] |
|  | | | very small to small | | |  | | | 2[ ] |
|  | | | small | | | Scallopini | | | 3[ ] |
|  | | | small to medium | | |  | | | 4[ ] |
|  | | | medium | | | Yellow Bush Scallop | | | 5[ ] |
|  | | | medium to large | | |  | | | 6[ ] |
|  | | | large | | | White Bush Scallop | | | 7[ ] |
|  | | | large to very large | | |  | | | 8[ ] |
|  | | | very large | | |  | | | 9[ ] |
| **5.19 (32.2)** | | | Only Acorn type varieties: Fruit: maximum diameter | | |  | | |  |
|  | | | very small | | |  | | | 1[ ] |
|  | | | very small to small | | |  | | | 2[ ] |
|  | | | small | | | Table Gold | | | 3[ ] |
|  | | | small to medium | | |  | | | 4[ ] |
|  | | | medium | | | Table King | | | 5[ ] |
|  | | | medium to large | | |  | | | 6[ ] |
|  | | | large | | | Swan White Acorn | | | 7[ ] |
|  | | | large to very large | | |  | | | 8[ ] |
|  | | | very large | | |  | | | 9[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.20 (32.3)** | | | Only Zucchini type varieties: Fruit: maximum diameter | | |  | | |  |
|  | | | very small | | |  | | | 1[ ] |
|  | | | very small to small | | |  | | | 2[ ] |
|  | | | small | | | Goldi | | | 3[ ] |
|  | | | small to medium | | |  | | | 4[ ] |
|  | | | medium | | | Opal | | | 5[ ] |
|  | | | medium to large | | |  | | | 6[ ] |
|  | | | large | | | Jericho, Spidi | | | 7[ ] |
|  | | | large to very large | | |  | | | 8[ ] |
|  | | | very large | | |  | | | 9[ ] |
| **5.21 (34.1)** | | | Only Pumpkin type varieties: Fruit: size | | |  | | |  |
|  | | | very small | | | Wee-B-Little | | | 1[ ] |
|  | | | very small to small | | |  | | | 2[ ] |
|  | | | small | | | Peek-a-Boo | | | 3[ ] |
|  | | | small to medium | | |  | | | 4[ ] |
|  | | | medium | | | Spirit | | | 5[ ] |
|  | | | medium to large | | |  | | | 6[ ] |
|  | | | large | | | Ghost Rider | | | 7[ ] |
|  | | | large to very large | | |  | | | 8[ ] |
|  | | | very large | | | Howden | | | 9[ ] |
| **5.22 (34.2)** | | | Only Rondini type varieties: Fruit: size | | |  | | |  |
|  | | | very small | | |  | | | 1[ ] |
|  | | | very small to small | | |  | | | 2[ ] |
|  | | | small | | | Pomme d’Or | | | 3[ ] |
|  | | | small to medium | | |  | | | 4[ ] |
|  | | | medium | | | Rolet | | | 5[ ] |
|  | | | medium to large | | |  | | | 6[ ] |
|  | | | large | | | Little Gem | | | 7[ ] |
|  | | | large to very large | | |  | | | 8[ ] |
|  | | | very large | | |  | | | 9[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.23 (46)** | | | Fruit: grooves | | |  | | |  |
|  | | | absent | | |  | | | 1[ ] |
|  | | | present | | |  | | | 9[ ] |
| **5.~~5~~ 24 (50)** | | | **Fruit: main color of skin (excluding color of dots, patches, stripes and bands)** | | |  | | |  |
|  | | | white | | | Pâtisson blanc panaché de vert | | | 1[ ] |
|  | | | cream | | | Early White Bush Scallop, Little Boo | | | 2[ ] |
|  | | | yellow | | | Autumn Gold | | | 3[ ] |
|  | | | green | | | Ambassador, Baby Bear | | | 4[ ] |
|  | | | partly white and partly yellow | | |  | | | 5[ ] |
|  | | | partly white and partly green | | |  | | | 6[ ] |
|  | | | partly yellow and partly green | | | Sunburst, Zephyr | | | 7[ ] |
| **5.25 (51)** | | | **Only varieties with yellow color of skin: Fruit: intensity of yellow color of skin (as for 50)** | | |  | | |  |
|  | | | very light | | |  | | | 1[ ] |
|  | | | very light to light | | |  | | | 2[ ] |
|  | | | light | | |  | | | 3[ ] |
|  | | | light to medium | | |  | | | 4[ ] |
|  | | | medium | | |  | | | 5[ ] |
|  | | | medium to dark | | |  | | | 6[ ] |
|  | | | dark | | |  | | | 7[ ] |
|  | | | dark to very dark | | |  | | | 8[ ] |
|  | | | very dark | | |  | | | 9[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.26 (52)** | | | **Only varieties with yellow color of skin: Fruit: intensity of yellow color of skin (as for 50)** | | |  | | |  |
|  | | | very light | | |  | | | 1[ ] |
|  | | | very light to light | | |  | | | 2[ ] |
|  | | | light | | |  | | | 3[ ] |
|  | | | light to medium | | |  | | | 4[ ] |
|  | | | medium | | |  | | | 5[ ] |
|  | | | medium to dark | | |  | | | 6[ ] |
|  | | | dark | | | Cora | | | 7[ ] |
|  | | | dark to very dark | | |  | | | 8[ ] |
|  | | | very dark | | | Baby Bear, Sardane | | | 9[ ] |
| **5.27 (54)** | | | Fruit: stripes in grooves | | |  | | |  |
|  | | | absent | | | Baby Bear, Jack Be Little | | | 1[ ] |
|  | | | present | | | Delicata, Heart of Gold,  Pâtisson jaune panaché de vert | | | 9[ ] |
| **5.28 (57)** | | | Fruit: dots | | |  | | |  |
|  | | | absent | | | Sunburst | | | 1[ ] |
|  | | | present | | | Gold Rush, Table Queen | | | 9[ ] |
| **5.29 (59)** | | | Fruit: secondary green color between ribs (excluding dots) | | |  | | |  |
|  | | | absent | | | Grey Zucchini, Small Sugar | | | 1[ ] |
|  | | | present | | | Beatrice, Greyzini, Heart of Gold, Steierischer Ölkürbis, Tonda Padana, Zubi | | | 9[ ] |
| **5.30 (61)** | | | Fruit: distribution of secondary green color between ribs | | |  | | |  |
|  | | | sparse patches | | | Greyzini, Elite | | | 1[ ] |
|  | | | dense patches | | | Steierischer Ölkürbis | | | 2[ ] |
|  | | | one colored stripes | | | Altea | | | 3[ ] |
|  | | | two colored stripes | | |  | | | 4[ ] |
|  | | | one colored bands covering the whole surface | | | Badger Cross, Twickers, Zubi | | | 5[ ] |
|  | | | two colored bands covering the whole surface | | | Beatrice | | | 6[ ] |
|  | | | Characteristics | | | Example Varieties | | | Note |
| **5.31 (69)** | | | Ripe fruit: main color of skin (excluding color of mottles, patches, stripes and bands) | | |  | | |  |
|  | | | white | | | Pâtisson blanc panaché de vert | | | 1[ ] |
|  | | | whitish | | | White Bush Scallop | | | 2[ ] |
|  | | | cream | | | Bianchini, Opal | | | 3[ ] |
|  | | | yellow | | | Gold Rush | | | 4[ ] |
|  | | | orange | | | Autumn Gold | | | 5[ ] |
| **5.32 (71)** | | | Ripe fruit: secondary color of skin (as for 69) | | |  | | |  |
|  | | | whitish | | |  | | | 1[ ] |
|  | | | cream | | |  | | | 2[ ] |
|  | | | yellow | | |  | | | 3[ ] |
|  | | | orange | | |  | | | 4[ ] |
|  | | | green | | |  | | | 5[ ] |
| **5.33 (74)** | | | Ripe fruit: color of flesh | | |  | | |  |
|  | | | cream | | | Elite | | | 1[ ] |
|  | | | yellow | | | Sunburst, Vegetable Spaghetti | | | 2[ ] |
|  | | | orange | | | Autumn Gold | | | 3[ ] |
| **5.34 (82)** | | | **Resistance to *Zucchini yellow mosaic virus* (ZYMV)** | | |  | | |  |
|  | | | absent or low | | | Cora | | | 1[ ] |
|  | | | medium | | | Mirza | | | 2[ ] |
|  | | | high | | | Mikonos | | | 3[ ] |
|  | | | not tested | | |  | | | [ ] |
| **5.35 (83)** | | | **Resistance to *Watermelon mosaic virus* (WMV)** | | |  | | |  |
|  | | | absent | | |  | | | 1[ ] |
|  | | | present | | |  | | | 9[ ] |
|  | | | not tested | | |  | | | [ ] |

[Fin del documento]

1. Celebrada en Antalya (Turquía) del 1 al 5 de mayo de 2023 [↑](#footnote-ref-2)
2. matref@geves.fr [↑](#footnote-ref-3)
3. matref@geves.fr [↑](#footnote-ref-4)