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# INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

## TECHNICAL WORKING PARTY FOR VEGETABLES

## Thirty-Sixth Session
## Tsukuba, Japan, September 9 to 13, 2002

WORKING PAPER ON TEST GUIDELINES FOR MELON
(REVISION)

*Document prepared by experts from Spain*

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## I. Subject of these Guidelines

These Test Guidelines apply to all edible varieties of *Cucumis melo* L.

## II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the seed required for testing the variety 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 are complied with. As a minimum, for each year of test the following quantity of seed is recommended:

Formula

| | |
|---|---|
| X= total number of growing trials | 3 |
| p=number of plants per growing trial | 30 |
| a= level of plant establishment/submitted seeds | 1/3 |
| Y = number of special tests | 10 |
| r = number of plants per test | 60 |
| b =level of plant establishment in test/submitted seed | 1/2 |
| Z =number of years of stock required for reference | 10 |
| s = rate of deterioration in store | 0,60 |

Number of seeds required
N=X(p/a)+Y(r/b)+Z(p/as)=3*(30*3)+10*(60*2)+10*(30*3/0,6)=270+1200+1500= 2970 - >3000 seeds

Quantity of seeds required
Q=N/1000*TSW= 2970*50/1000 = 148,5gr ? 150 gr

2. The plant material supplied should be visibly healthy, not lacking in vigor or affected by any important pest or disease.

## III. Conduct of Tests

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

2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.

3. The tests should be carried out under conditions ensuring normal growth. The size of the plots should be such that plants or parts of plants may be removed for measurement and counting without prejudice to the observations which must be made up to the end of the growing cycle. As a minimum, each test should include a total of 20 plants which should be divided between two or more replicates. Separate plots for observation and for measuring should only be used if they have been subject to similar environmental conditions.

4. Additional tests for special purposes may be established.

## IV. Methods and Observations

1. All observations determined by measurement or counting should be made at least on 10 plants or parts of 10 plants per replication.

### 2. Distinctness

It is of particular importance for users of these Test Guidelines to consult TG/1/3 currently chapter 5 of TC/37/9 prior making decisions regarding distinctness.

### 3. Uniformity

For the assessment of uniformity a population standard of 2 % for open pollinated varieties and of 1 % for hybrid varieties with an acceptance probability of 95 % should be applied. Where the test is conducted on 20 plants, the maximum number of off-types allowed would be 1 for hybrid varieties whereas for open-pollinated varieties it would be 2.

### 4. Timing of Observations

(a) All observations on the seedling should be made just before the development of the first leaf.

(b) All observations on the leaf should be made on fully developed but not old leaves in internodes between the $5^{th}$ and the $8^{th}$ counting from the apex of main stem, and never in the 3 first internodes counting from the base of the stem.

(c) All observations on the young fruit should be made on fruits with less than the half of the final size, preferently 7-10 cm of diameter. It is recommended to harvest one small fruit per plant to observe them in groups (for characteristics VG).

*(The Netherlands experts have doubts about the necessity to make observations in this state instead of before maturity)*

(d) All observations of the fruit before maturity should be made when the fruit has almost reached its final size, but before the start of corking and the change of color. Can be assessed in fruits in the plant.

(e) All observations of the fruit at over maturity should be made when the fruit has lost its commercial state.

(f) All observations on the fruit except the precedent cases should be made on ripened fruit. It is convenient to harvest the fruits to observe them side by side. For the flesh characteristics it is recommended to wait at least a week after the harvesting before opening the fruits.

(g) All observations on the seed, should be made on mature and dry seeds, after washing and drying in the shade.

5. Observations of Color

General Explanation about Different Components of Colors Characteristics

The color is defined for the resultant of three basic components: blue-green-red.

It is very difficult to quantify visually with sufficient precision each component which would be the exact form of define one color.

Existing indexes or ratios composed with the relative quantities of the components that are easier to perceive by the human eye:

the *saturation*: this is a parameter that indicates the vivacity of the colors. The bigger the difference between the quantity of the dominant and the less abundant component, the higher the saturation. The opposite concept is the ***grey hue*** of the colors, also named ***glaucescence*** in many crops, that is easy to observe;

the *brightness*: this parameter varies depending on the total quantity of the addition of both the dominant and the less abundant components. This opposite concept is the ***intensity*** of the color, easily assessed by eyes;

the *hue*: is determined by the relative proportion of 2 principal components: There is a continuous transition between adjacent hues. Others, non-adjacent hues are clearly separated. This type of characteristic can be considered as pseudo-qualitative or qualitative characteristics, depending on the types of hue that appear in one concrete crop. In the case of qualitative characteristic, it will be simply called "color", as for the case of pseudo-qualitative, to be of possible use for grouping, it must be divided in two characteristics: one named ***"color"***, that will join different hues in the common basic color, clearly different of all the others basic colors. One different characteristic would describe adjacent hues, and would be used not for grouping, but mainly for distinctness.

Examples in melon:

*Color of young fruit* (always green)

There are different ***grey*** hues (saturation), and different intensities (brightness). The basic color can be considered always green, but would be a lineal gradation from the yellowish hue (slight predominance of the red over the blue "perfect" green) (red and blue components in similar proportion). Bluish hues (when the blue component is slightly stronger than the red one) is not included in the possible expressions of this characteristic because no examples varieties are known by us. In order not to too much increase the number of characteristics, we propose to include in characteristic number 14, two authentical hues: (yellowish, and green). The expression ***grey*ish** represents not a hue but a low saturation and the whitish varieties with a very light intensity of green, is not a significative hue.

*Color of mature fruit*

All the Galia type would be considered as yellow. Hues with a cream orange or greenish color can be considered into the group, but in a separate characteristic.

All the Charentais type would be considered as ***grey***. Greenish, white or yellowish hues can be used for distinctness, but no recommended for grouping.

*Color at over maturity.*

Is always yellow (if there is change of color after the maturity). The differences would be in hue cream orange, greenish, or in intensity of the yellow color.

Changing of Colors in Melon

The growing fruit of melon can have one, two or three different colors. The speed of evolution of the color varies a lot depending on the group of the variety, but also into the same group. It is very difficult to conduct one or several occasions for observation that would be sufficient for characterizing all the varieties, as the description should include a complete information about an important grouping characteristic, without introducing differences in the description that could produce mistakes in the grouping.

These characteristics could be named as "dynamic" characteristics. A good solution could be to divide them in several qualitative characteristics, expressing the different steps in evolution of color, completed with the information of the speed of changing between the different steps.

Thus for melon the description of the colors could be:

1. color of the young fruit (stage 1)
2. speed of changing to color at maturity
3. color at maturity (stage 2)
4. speed of changing to color at over maturity
5. color at over maturity (stage 3).

The three stages mentioned must be considered in various ways. Thus, the description of the color in a stage must not vary for differences in the speed of changing (only if there is no change).

Some examples could illustrate these arguments:

| Variety | Stage 1 color of the young fruit | Speed St1->St2 Ch.26 color at maturity | Stage 2 Ch32 | Speed St2->St3 Ch.55 | Stage 3 color at over maturity |
|---|---|---|---|---|---|
| Galia | Green | Slow | yellow | No | Yellow |
| Amarillo Oro | Green | Medium | yellow | No | yellow |
| Charentais | Green | Quick | grey | Quick | yellow |
| Alfa | Green | Quick | grey | Medium | yellow |
| Clipper | Green | Quick | grey | No | grey |
| Albino | Green | Medium | white | no | white |
| Dulcinea | Green | Medium | white | medium | yellow |
| Futuro | Green | No | green | quick | yellow |
| Piel de Sapo | Green | No | green | no | green |

## V. Grouping of Varieties

1. The collection to be grown should be divided into groups to facilitate the assessment of distinctness. Characteristics that are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly within a variety and which in their various states are fairly evenly distributed within the collection.

2. It is recommended that the competent authorities use the following types and characteristics for grouping of varieties:
a) Types of varieties of *Cucumis melo* L.

| Fruit: type | Young fruit intensity of green color (Ch.16) | Fruit b.m.: density of patches | Fruit: ratio Length/width (Ch.19) | Ripe fruit: ground color of skin (Ch.22) | Ripe fruit: hue of ground color of skin | Fruit: grooves (Ch. 35) | Fruit: warts on skin | Fruit: density of pattern of cork formation (Ch.43) | Ripe fruit: color of flesh (Ch.48) | Example varieties | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Charentais | 1-5 | 1-3 | | grey | | present | absent | | orange | | 1 |
| Italian cantalup | 7-9 | 1-3 | 1-4 | | | | absent | 7-9 | orange | | |
| Zatta | | | | green | | present | present | | orange | | 2 |
| Galia | 1-7 | 1-3 | 1-3 | yellow | | | absent | 5-8 | green or white | | 3 |
| Ananas | 7-9 | | 1-4 | yellow | orange | absent | absent | 5-8 | white | | 4 |
| Rochet | | 1-3 | | green | | | absent | | white | | 5 |
| Piel de Sapo | | 5-9 | | green | | | absent | | white | | 6 |
| Amarillo Oro | 3-4 | 1 | | yellow | | | absent | 1-5 | green or white | | 7 |
| Blanco | 3-4 | 1 | | white | | | absent | | green or white | | 8 |
| Others | | | | | | | | | | | 9 |

(b) Characteristics to be used for grouping:

(a) Fruit type: (according to upper table)
(b) Inflorescence: sex expression (characteristic 13)
(c) Young fruit: intensity of green color (characteristic 15) (*Netherlands propose not include)*
(d) Fruit before maturity: density of patches (characteristic 22)
(c) Fruit: ground color of skin at maturity (characteristic 32)
(e) Fruit: grooves: (characteristic 46)
(f) Fruit: density of pattern of cork formation (characteristic 53)
(g) Fruit: main color of flesh (characteristic 59)
(h) Seed: color (characteristic 67)
(f) Resistance to Fusarium o.m.Race 0

VI. Characteristics and Symbols

1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the Table of Characteristics should be used.

2. Notes (1 to 9), for the purposes of electronic data processing, are given opposite the states of the different characteristics.

3. Legend:

(*) Characteristics that should be used every growing cycle for the examinations of all varieties and should always be included in the description of the variety, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.

(+) See Explanations on the Table of Characteristics in Chapter VIII.

G Grouping characteristic
QL Qualitative characteristic
QN Quantitative characteristic
PQ Pseudo-Qualitative characteristic
MS Measurement of a number of individual plants or parts of plants
VG Visual assessment of a group of plants or part of plants
VS Visual assessment of a number of individual plants or part of plants
A Observed in plant by plant
B Observed in plot by plot
C Observed in variety by variety

VII. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteresc

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **1.** **QN** | **VG** | **Seed: hypocotyledon length** | | | | | |
| | | very short (to delete) | | | | | |
| | | short | | | | Arava, Clipper | 3 |
| | | medium | | | | Doral, Futuro | 5 |
| | | long | | | | Bimbo, Ronda | 7 |
| | | very long **(**to delete) | | | | | |
| **2.** **QN** | **VG** | **Seed: size of cotyledons** | | | | | |
| | | very small (to delete) | | | | | 1 |
| | | small | | | | Candy, Lunasol | 3 |
| | | medium | | | | Futuro, Sancho | 5 |
| | | large | | | | Bimbo, Nicolás | 7 |
| | | very large (to delete) | | | | | 9 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **3.** | **VG** | **Seed: green color of cotyledons** | | | | | |
| **QN** | | | | | | | |
| | | light | | | | Bimbo, Lucas | 3 |
| | | medium | | | | Candy, Piel de Sapo | 5 |
| | | dark | | | | Clipper, Lunasol | 7 |
| | | **Plant: number of nodes on main stem (up to 1st tendril) (Only interesting in open field, to delete)** | | | | | |
| | | few | | | | | 3 |
| | | medium | | | | | 5 |
| | | many | | | | | 7 |
| **4.** | **VG** | **to delete (*) Leaf blade: size (in plant state of 7-10 nodes)** | | | | | |
| **QN** | | | | | | | |
| | | small | | | | Geaprince, Lunasol, | 3 |
| | | medium | | | | Candy, Total | 5 |
| | | large | | | | Don, Sucrero | 7 |
| **5.** | **VG** | **Leaf blade: glauescence** | **(Netherlands propose to name glossiness)** | | | | |
| **QN** | | | | | | | |
| | | weak | | | | Almerino, Gallardo | 3 |
| | | medium | | | | Doral, Toledo | 5 |
| | | strong | | | | Arava, Piel de Sapo, | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **6.** **QN** | **VG** | **Leaf blade: intensity of green color** | | | | | |
| | | light | | | | Fimel, Yuma | 3 |
| | | medium | | | | Doral, Galia | 5 |
| | | dark | | | | Gama, Gustal | 7 |
| **7.** **(+) QN** | **VG** | **Leaf blade: development of lobes** | | | | | |
| | | weak | | | | Boule d'or | 3 |
| | | medium | | | | Piel de Sapo | 5 |
| | | strong | | | | Galia | 7 |
| **8.** **(+) QN** | **VG** | **Leaf blade: length of terminal lobe** | **(Netherlands propose to delete)** | | | | |
| | | short | | | | Perlita | 3 |
| | | medium | | | | Clipper, Gama | 5 |
| | | long | | | | Gustal, Primal | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **9.** **QN** | **VG** | **Leaf blade: dentation of margin** | | | | | |
| | | weak | | | | Clipper, Gama | 3 |
| | | medium | | | | Piel de Sapo | 5 |
| | | strong | | | | Portoluz | 7 |
| | | Leaf blade: nodulation of margin to delete | | | | | |
| | | weak | | | | | 3 |
| | | medium | | | | | 5 |
| | | strong | | | | | 7 |
| **10.** **QN** | **VG** | **Leaf blade: blistering** | | | | | |
| | | weak | | | | Galia | 3 |
| | | medium | | | | Costa | 5 |
| | | strong | | | | Haros | 7 |
| **11.** | | **Petiole: attitude to delete** | **(Netherlands propose to keep it)** | | | | |
| | | erect | | | | | 3 |
| | | semi-erect | | | | | 5 |
| | | horizontal | | | | | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **12** | | **Petiole: length** | | | | | |
| **QN** | **MS** | | | | | | |
| | | short | | | | Costa | 3 |
| | | medium | | | | Arava, Sancho | 5 |
| | | long | | | | Goldgen | 7 |
| **13.** | | **Inflorescence: sex expression** | | | | | |
| **G** | **VS** | | | | | | |
| **QL** | | | | | | | |
| | | monoecius | | | | Alpha, Categoría | 1 |
| | | andromonoecius | | | | Piel de Sapo | 2 |
| **14.** | | **Young fruit: hue of green color of skin** | **(Netherlands propose to observe it before maturity)** | | | | |
| **PQ** | **VG** | | | | | | |
| | | whitish | | | | Geasol | 1 |
| | | yellowish | | | | Fimel | 2 |
| | | green | | | | Lucas | 3 |
| | | greyish | | | | Spanglia | 4 |
| **15. (*)** | | **Young fruit: intensity of green color of skin** | **(Netherlands propose to observe it before maturity)** | **(Netherlands propose to observe it only in green hue varieties)** | | | |
| **QN** | **VG** | | | | | | |
| | | very light | | | | Solarking | 1 |
| | | light | | | | Fimel | 3 |
| | | medium | | | | Eros | 5 |
| | | dark | | | | Galia | 7 |
| | | very dark | | | | Edén | 9 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **16.** **QN** | **VG** | **Young fruit: density of dots (Only in groups with densely corked fruit at maturity varieties)** | **(Netherlands propose to observe it before maturity)** | **(Netherlands propose to observe it in all groups)** | | | |
| | | absent or very sparse | | | | Solarking | 1 |
| | | sparse | | | | Fimel | 3 |
| | | medium | | | | Lucas | 5 |
| | | dense | | | | Arava | 7 |
| | | Very dense | | | | Edén | 9 |
| **17.** **QN** | **VG** | **Young fruit: Size of dots (Only in groups with densely corked fruit at maturity varieties)** | **(Netherlands propose to observe it before maturity)** | **(Netherlands propose to observe it in all groups)** | | | |
| | | small | | | | Lucas | 3 |
| | | medium | | | | Arava | 5 |
| | | big | | | | Spanglia | 7 |
| **18.** **QN** | **VG** | **Young fruit: contrast of dots color/ground color (Only in groups with densely corked fruit at maturity varieties)** | **(Netherlands propose to observe it before maturity)** | **(Netherlands propose to observe it in all groups)** | | | |
| | | weak | | | | Lucas | 3 |
| | | medium | | | | Arava | 5 |
| | | strong | | | | Total | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **19.** **QN** | **VS** | **Young fruit: extension of grooves color (Only in groups with densely corked fruit at maturity varieties)** | **(Netherlands propose to observe it before maturity)** | **(Netherlands propose to observe it in all groups)** | **(Netherlands propose to add an explanation)** | | |
| | | absent or very weak | | | | Solarking | 1 |
| | | weak | | | | Geaprince, Total | 3 |
| | | medium | | | | Gama | 5 |
| | | strong | | | | Clipper, Galia | 7 |
| | | very strong | | | | Nembo | 9 |
| **20.** **QN** | **VS** | **Young fruit: intensity of grooves color (Only in groups with densely corked fruit at maturity varieties)** | **(Netherlands propose to observe it before maturity)** | **(Netherlands propose to observe it in all groups)** | | | |
| | | light | | | | | 3 |
| | | medium | | | | Gama, Topper | 5 |
| | | dark | | | | Century, Drake | 7 |
| **21.** **(+) QN** | **VG** | **Young fruit: creasing of surface (Only in groups with densely corked fruit at maturity varieties)** | **(Netherlands propose not to add)** | | | | |
| | | absent/very weak | | | | Century | 1 |
| | | weak | | | | Total | 3 |
| | | medium | | | | Edén | 5 |
| | | strong | | | | | 7 |
| | | very strong | | | | | 9 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **22. (*) QNG** | **VG** | **Fruit before maturity: density of patches** | | | | | |
| | | absent or very weak | | | | Rochet | 1 |
| | | sparse | | | | | 3 |
| | | medium | | | | Braco | 5 |
| | | dense | | | | Piel de Sapo | 7 |
| | | very dense | | | | | 9 |
| **23. QN** | **VG** | **Fruit before maturity: size of patches** | | | | | |
| | | small | | | | Baltasar | 3 |
| | | medium | | | | Sancho | 5 |
| | | big | | | | Taurus | 7 |
| **24. QN** | **VG** | **Fruit before maturity: intensity of patches color** | | | | | |
| | | weak | | | | | 3 |
| | | medium | | | | | 5 |
| | | strong | | | | | 7 |
| **25. QN** | **VG** | **Fruit before maturity: green shoulder** | | | | | |
| | | absent or very weak | | | | Doral | 1 |
| | | weak | | | | Boule d‘or | 3 |
| | | medium | | | | Mirasol | 5 |
| | | strong | | | | | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **26.** **QN** | **VG** | **Speed of changing from green to ripen color** | **(Netherlands propose to add an explanation)** | | | | |
| | | no change | | | | Piel de Sapo | 1 |
| | | slow | | | | Galia | 3 |
| | | medium | | | | Doral, Eloro | 5 |
| | | quick | | | | Drake, Geaprince | 7 |
| **27.** **(*)** **QN** | **MS** | **Fruit: length** | | | | | |
| | | very short | | | | Doublon, Golden Crispy | 1 |
| | | short | | | | Topper, Total | 3 |
| | | medium | | | | Marina, Spanglia | 5 |
| | | long | | | | Categoría, Toledo | 7 |
| | | very long | | | | Katsura Giant, Valdivia | 9 |
| **28.** **(*)** **QN** | **MS** | **Fruit: diameter** | | | | | |
| | | very narrow | | | | Banana, Golden Crispy | 1 |
| | | narrow | | | | Alpha, Maestro | 3 |
| | | medium | | | | Categoría, Galia | 5 |
| | | broad | | | | Albino, Kinka | 7 |
| | | very broad | | | | Noir des Carmes | 9 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **29. (*) G QN** | **MS** | **Fruit: ratio length/diameter** | | | | | |
| | | very small | | | | Noir des Carmes | 1 |
| | | very small to small | | | | Arava, Clipper | 2 |
| | | small | | | | Buster, Galia | 3 |
| | | small to medium | | | | Aril, Edén | 4 |
| | | medium | | | | Doral, Tendral Negro | 5 |
| | | medium to large | | | | Sirocco, Verdol | 6 |
| | | large | | | | Categoría, Futuro | 7 |
| | | large to very large | | | | Iguana, Trujillo | 8 |
| | | very large | | | | Banana | 9 |
| **30. (*) (+) PQ** | **VG** | **Fruit: position of maximum width** | | | | | |
| | | toward blossom end | | | | Edén, Katsura Giant | 1 |
| | | at center | | | | Piel de Sapo, Vedrantais | 2 |
| | | toward stem end | | | | Piolín , Sapo de Oro | 3 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **31. (*) (+) PQ** | **VG** | **Fruit: shape of longitudinal section** | | | | | |
| | | oblate | | | | Jívaro | 1 |
| | | circular | | | | Galia | 2 |
| | | ovate | | | | Piolín | 3 |
| | | broad elliptic (proposed by Netherlands) | | | | | |
| | | elliptic | | | | Piel de Sapo | 4 |
| | | elongated | | | | Banana | 5 |
| | | quadrangular (proposed by Italy) | | | | Zatta | 6 |
| **32. (*) G QL** | **VG** | **Fruit: ground color of skin <u>at</u> <u>maturity</u>** | | | | | |
| | | white | | | | Albino | 1 |
| | | yellow | | | | Galia | 2 |
| | | green | | | | Piel de Sapo | 4 |
| | | grey | | | | Vedrantais | 5 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **33.** | **VG** | **Fruit: hue of skin color <u>at maturity</u>** | | | | | |
| **PQ** | | | | | | | |
| | | whitish | | | | (Charentais type) | |
| | | yellowish | | | | (Charentais type) | |
| | | orange | | | | Edén (Ananás type) | |
| | | ochre | | | | Passport (Galia type) | |
| | | creme | | | | (Charentais type) | |
| | | greenish | | | | Geamar (Charentais type), Solarking (Galia type), Honey Dew (White type) | |
| | | greyish | | | | Clipper (Charentais type) | |
| **34.** | **VG** | **Fruit: intensity of ground color of skin <u>at maturity</u>** | | | | | |
| **QN** | | | | | | | |
| | | light | | | | | 3 |
| | | medium | | | | | 5 |
| | | dark | | | | | 7 |
| | | To delete Fruit: secondary colors of skin | | | | | |
| | | absent | | | | | 1 |
| | | present | | | | | 9 |
| | | To delete | | | | | |
| | | Fruit: distribution of secondary color of skin | | | | | |
| | | in dots | | | | | 1 |
| | | in dots and in patches | | | | | 2 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **35.** **QN** | **VS** | **Fruit: density of dots Only in not or slightly corked types** | **(Netherlands propose to delete)** | | | | |
| | | absent or very sparse | | | | Charentais | 1 |
| | | sparse | | | | | 3 |
| | | medium | | | | | 5 |
| | | dense | | | | Piel de Sapo | 7 |
| | | very dense | | | | Albino | 9 |
| **36.** **Q** | **VG** | **Fruit: color of the dots** | | | | | |
| | | white | | | | Edén | |
| | | yellow | | | | Piel de Sapo | |
| | | green | | | | Tendral Negro | |
| **37.** **QN** | **VS** | **Fruit: intensity of the yellow color of the dots** | | | | | |
| | | light | | | | Kinka, Mesol | |
| | | medium | | | | Sapiel, Toledo | |
| | | dark | | | | Soprano, Víctor | |
| **38.** **QN** | **VS** | **Fruit: Size of the dots (Only in not or slightly corked types)** | **(Netherlands propose not to add)** | | | | |
| | | small | | | | Doral | |
| | | medium | | | | Toledo | |
| | | big | | | | Futuro | |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| | | **Fruit: density of patches (to delete)** | To be observed before of maturity | | | | |
| | | absent or very sparse | | | | | |
| | | sparse | | | | | 3 |
| | | medium | | | | | 5 |
| | | dense | | | | | 7 |
| | | very dense | | | | | |
| | | **Fruit: size of the patches (to delete)** | To be observed before of maturity | | | | |
| | | small | | | | | 3 |
| | | medium | | | | | 5 |
| | | big | | | | | 7 |
| **39.** **Q** | **VG** | **Fruit: warts (Proposed by Italy)** | | | | | |
| | | absent | | | | Piel de Sapo | 1 |
| | | present | | | | Zatta | 9 |
| **40.** **QN** | **MS** | **Fruit: length of peduncle** | | | | | |
| | | short | | | | Lince Haros | 3 |
| | | medium | | | | Arava, Romeo | 5 |
| | | long | | | | Corín | 7 |
| **41.** **QN** | **MS** | **Fruit: thickness of peduncle 1 cm from fruit** | **(Netherlands propose to delete)** | | | | |
| | | thin | | | | | 3 |
| | | medium | | | | | 5 |
| | | thick | | | | | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **42. (*)** | **VS** | **Fruit: abscission of peduncle** | | | | | |
| **QN** | | | | | | | |
| | | absent or very weak | | | | Daimiel, Eloro | 1 |
| | | weak | | | | Clipper, Costa | 3 |
| | | medium | | | | Doral, Gama, Vedrantais | 5 |
| | | strong | | | | Arava, Maestro | 7 |
| | | Very strong | | | | Edén | |
| **43. (*)** | **VS** | **Fruit: shape of base** | | | | | |
| **PQ** | | | | | | | |
| | | pointed | | | | Edén | 1 |
| | | rounded | | | | Arava | 2 |
| | | flattened | | | | Zatta | 3 |
| **44. (*)** | **VS** | **Fruit: shape of apex** | | | | | |
| **PQ** | | | | | | | |
| | | pointed | | | | Futuro | 1 |
| | | rounded | | | | Alpha | 2 |
| | | flattened | | | | Noir des Carmes | 3 |
| **45. (*)** | **VS** | **Fruit: size of pistil scar** | | | | | |
| **QN** | | | | | | | |
| | | small | | | | Alpha, Categoría | 3 |
| | | medium | | | | Charentais, Eros, Verdol | 5 |
| | | large | | | | Colmo, Drake | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **46. (*)** | **VG** | **Fruit: grooves** | | | | | |
| **Q** | | | | | | | |
| | | absent or very weak | | | | Piel de Sapo | 1 |
| | | present | | | | Vedrantais | 9 |
| | | Fruit: maximum width between grooves (to delete) | | | | | |
| | | narrow | | | | | 3 |
| | | medium | | | | | 5 |
| | | broad | | | | | 7 |
| **47.** | **VS** | **Fruit: width of grooves** | | | | | |
| **QN** | | | | | | | |
| | | narrow | | | | Auraprince | 3 |
| | | medium | | | | Biga | 5 |
| | | broad | | | | Nembo, Sirio | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **48.** **QN** | **VS** | **Fruit: depth of grooves** | | | | | |
| | | very shallow | | | | Amber | 1 |
| | | shallow | | | | Galia | 3 |
| | | medium | | | | Alpha | 5 |
| | | deep | | | | Panamá | 7 |
| | | very deep | | | | Noir des Carmes | 9 |
| **49.** **(*)** **(+)** **QN** | **VS** | **Fruit: creasing of surface** | | | | | |
| | | absent or very weak | | | | Vedrantais | 1 |
| | | weak | | | | Melchor, Sirocco | 3 |
| | | medium | | | | Costa, Piolín | 5 |
| | | strong | | | | Tendral Negro | 7 |
| | | very strong | | | | | 9 |
| **50.** **(*)** | | **Fruit: cork formation (to delete)** | **(Netherlands propose to keep it)** | | | | |
| | | absent | | | | | 1 |
| | | present | | | | | 9 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **51. (*)** **VS** **QN** | | **Fruit: thickness of cork layer** | | | | | |
| | | very thin | | | | | 1 |
| | | thin | | | | Riosol | 3 |
| | | medium | | | | Marina | 5 |
| | | thick | | | | Geamar | 7 |
| | | very thick | | | | Honey Rock | 9 |
| **52. (*)** **PQ** **VS** | | **Fruit: pattern of cork formation** | | | | | |
| | | in small dots | | | | Hermes, Vedrantais | 1 |
| | | dots and linear | | | | Jívaro, Topper | 2 |
| | | linear | | | | Futuro, Riosol | 3 |
| | | linear and netted | | | | Anatol, Chantal | 4 |
| | | netted | | | | Galia, Perlita | 5 |
| **53. (*)** **QN** **G** **VS** | | **Fruit: density of pattern of cork formation** | | | | | |
| | | absent or very sparse | (Netherlands propose only very sparse) | | | Alpha, Amarillo Oro | 1 |
| | | sparse | | | | Vedrantais | 3 |
| | | medium | | | | Regal, Vital | 5 |
| | | dense | | | | Galia, Geamar | 7 |
| | | very dense | | | | Honey Rock, Perlita | 9 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **54. (*)** | | **To delete asterisk** | | | | | |
| **Q** | **VG** | **Fruit: color of grooves/ground skin** | | | | | |
| | | similar | | | | Galia | 1 |
| | | different | | | | Vedrantais | 2 |
| **.** | | **To delete** | To observe in young fruit | | | | |
| | | **Fruit: intensity of color of grooves** | | | | | |
| | | light | | | | | 3 |
| | | medium | | | | | 5 |
| | | large | | | | | 7 |
| **55.** | | **Fruit: Speed of changing to over maturity color** | | | | | |
| **QN** | **VG** | | | | | | |
| | | no change | | | | Clipper, Doral, Galia, Honey dew, Piel de Sapo | |
| | | slow | | | | Dulcinea, Goloso | 3 |
| | | medium | | | | Futuro, Vendôme | 5 |
| | | quick | | | | Corin, Marina, Nembo | 7 |
| **56.** | | **Fruit at over maturity: Hue of yellow color (only in the case of changed color)** | | | | | |
| **PQ** | **VG** | | | | | | |
| | | yellow | | | | Futuro, Marina | 3 |
| | | orange | | | | Drake, Gama | 5 |
| | | cream | | | | Figaro, Vendôme | 7 |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **57.** **QN VS** | | **Fruit at over maturity: Intensity of color (only in the case of changed color)** | | | | | |
| | | light | | | | | 3 |
| | | medium | | | | | 5 |
| | | dark | | | | | 7 |
| **58.** **(+)** | | **Fruit: maximum width of flesh in cross section** | | | | | |
| | | thin | | | | Gama | 3 |
| | | medium | | | | Toledo | 5 |
| | | thick | | | | Tito | 7 |
| | | **Fruit: maximum width of thin outer layer of flesh in cross section (to delete)** | | | | | |
| | | thin | | | | | 3 |
| | | medium | | | | | 5 |
| | | thick | | | | | 7 |
| **59.** **(*)** | | **Fruit: <u>main color</u> of flesh** | | | | | |
| | | white | | | | Piel de Sapo | 1 |
| | | green | | | | Galia | 2 |
| | | orange | | | | Vedrantais | 3 |

| Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|
| **60.** **QN VS** | **Fruit: salmon hue of flesh (Only for green and white flesh types)** | | | | | |
| | absent or very weak | | | | Gustal | 1 |
| | weak | | | | Floraprince, Toledo | 3 |
| | medium | | | | Arizo, Eloro | 5 |
| | strong | | | | | 7 |
| **61.** **(+) QN VS** | **Fruit: intensity of main color of flesh** | | | | | |
| | light | | | | | 3 |
| | medium | | | | | 5 |
| | dark | | | | | 7 |
| | To delete | | | | | |
| | **Fruit: color of flesh of <u>outer</u> layer** | | | | | |
| | cream | | | | | 1 |
| | green | | | | | 2 |
| | orange | | | | | 3 |
| **63.** **QN VS** | **Fruit: Firmness of the flesh** | **(Netherlands ask to give an explanation on how to assess)** | | | | |
| | soft | | | | Galia, Marina | |
| | medium | | | | Sancho, Supporter | |
| | firm | | | | Braco, Geamar | |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **64.** | | **Seed: length** | | | | | |
| | **MS** | | | | | | |
| **QN** | | | | | | | |
| | | very short | | | | Golden Crispi | 1 |
| | | short | | | | Katsura Giant | 3 |
| | | medium | | | | Arava, Sancho | 5 |
| | | long | | | | Amarillo Oro, Toledo | 7 |
| | | very long | | | | Albino | 9 |
| **65.** | | **Seed :width** | | | | | |
| | **MS** | | | | | | |
| **QN** | | | | | | | |
| | | very narrow | | | | Golden Crispi | |
| | | narrow | | | | Aurabel | |
| | | medium | | | | Arava, Sancho | |
| | | llarge | | | | Amarillo Oro | 7 |
| | | very large | | | | Ronda | 9 |
| | | To delete | | | | | |
| | | **Seed: shape at hilum end** | | | | | |
| | | sharply pointed | | | | | |
| | | bluntly pointed | | | | | |
| | | To delete | | | | | |
| | | **Seed: shape of cross section** | | | | | |
| | | narrow elliptic | | | | | |
| | | elliptic | | | | | |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **66.** **(+) PQ VS** | | **Seed: shape** | | | | | |
| | | Not pine-nut shape | | | | Toledo | 1o |
| | | Pine-nut shape | | | | Piel de Sapo | 2 |
| **67. (*) G Q** | **VG** | **Seed: color** | | | | | |
| | | ivory | | | | Amarillo Oro s.b. | 1 |
| | | cream-yellow | | | | Piel de Sapo | 2 |
| **68. QN** | **VG** | **Seed: intensity of color** | **(Netherlands propose not to add)** | | | | |
| | | light | | | | Goldgen | 3 |
| | | medium | | | | Galia | 5 |
| | | dark | | | | Doral | 7 |
| **69. QN** | **MS** | **Time of male flowering** | | | | | |
| | | early | | | | Clipper, Vital | 3 |
| | | medium | | | | Categoría | 5 |
| | | late | | | | Nicolás, Rocín | 7 |
| **70. QN** | **MS** | **Time of female flowering** | | | | | |
| | | early | | | | Clipper | |
| | | medium | | | | Categoría, Braco, Vital | |
| | | late | | | | Nicolás | |

| | Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|---|
| **71.** | | **Time of ripening** | | | | | |
| | **MS** | | | | | | |
| **QN** | | | | | | | |
| | | early | | | | | |
| | | medium | | | | | |
| | | late | | | | | |
| **72.** | | **Conservation of fruits** | | | | | |
| **QN VS** | | | | | | | |
| | | short | (Netherlands propose to add an explanation) | | | Charentais, Galia | 3 |
| | | medium | | | | Clipper | 5 |
| | | long | | | | Piel de Sapo | 7 |
| | | very long | | | | Tendral Negro | 9 |
| **73.** | | **Resistance to <u>race 0</u> of Fusarium oxysporum f. sp. melonis** | | | | | |
| **(+)** | | | | | | | |
| | | absent | | | | Jaune Canari 2 | 1 |
| | | present | | | | Jador, Joker, Vedrantais | 9 |
| **74.** | | **Resistance to <u>race 1</u> of Fusarium oxysporum f. sp. melonis** | | | | | |
| **(+)** | | | | | | | |
| | | absent | | | | Jaune Canari 2, Vedrantais | 1 |
| | | present | | | | Jador, Joker | 9 |

| Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|
| **75.** (+) | **Resistance to <u>race 2</u> of Fusarium oxysporum f. sp. Melonis** | | | | | |
| | absent | | | | Jaune Canari 2, Joker | 1 |
| | present | | | | Jador, Vedrantais | 9 |
| **76.** (+) | **Resistance to <u>race 1-2</u> of Fusarium oxysporum f. sp. melonis** | | | | | |
| | absent | | | | Jaune Canari2 Joker, Vedrantais | 1 |
| | present | | | | Jador | 9 |
| **77.** | **Resistance to Sphaeroteca fuliginea** | **(Netherlands propose to gives races and define a protocol)** | | | | |
| | absent | | | | Piel de Sapo | |
| | present | | | | Eloro | |
| **78.** (+) | **Resistance to colonization by <u>Aphis gossypii</u>** | | | | | |
| | absent | | | | Charentais | 1 |
| | present | | | | AR, Margot, Top Mark | 9 |
| **79.** (+) | **Resistance to <u>race F</u> of Zucchini Yellow Mosaic Virus (ZYMV)** | | | | | |
| | absent | | | | Alpha, Boule d'Or Cantor, Doublon | 1 |
| | present | | | | Eloro, Hermes, Vedrantais | 9 |

| Plot[1)] Parcelle[1)] Parzelle[1)] Parcela[1)] | English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|---|---|---|---|---|---|---|
| **80.** (+) | **Resistance to <u>race GVA</u> of Papaya Ringspot Virus (PRV)** | | | | | |
| | absent | | | | Vedrantais | 1 |
| | present | | | | WMRV 29, 72025 | 9 |
| **81.** (+) | **Resistance to <u>race $E_2$</u> of Papaya Ringspot Virus (PRV)** | | | | | |
| | absent | | | | Vedrantais, 72025 | 1 |
| | present | | | | WMRV 29 | 9 |
| **82.** (+) | **Resistance to <u>race $E_8$</u> of Muskmelon Necrotic Spot Virus (MNSV)** | | | | | |
| | absent | | | | Vedrantais | 1 |
| | present | | | | Primal, VA 435 | 9 |

VIII. Explanations on the Table of Characteristics

To add the pictures of TG104/4 for characteristics 7, 8, 30, 49

To change picture of TG104/4 for characteristic 31

To add a new picture for characteristic 29: Fruit: ratio (length / width)

To add an explanation with a photo for characteristic 66: Seed shape

Not to include the explanation for characteristics 47, 50

Not to include the explanation about stage of maturity

IX. Literature

INVUFLEC, 1976: “Le melon cantaloup”, publication de l’ Institut National de Vulgarisation pour les fruits, légumes et champignons, FR (191 pp.)

CTIFL, 1985: “Melon, marché et techniques de production”, publication du Centre technique interprofessionnel des fruits et légumes, FR (270 pp.)

X. Technical Questionnaire

| | |
|---|---|
| | Reference Number<br>(not to be filled in by the applicant) |
| | |

TECHNICAL QUESTIONNAIRE
to be completed in connection with an application for plant breeders' rights

| | |
|---|---|
| 1. Species | *Cucumis melo* L.<br><br>MELON |
| 2. Applicant (Name and address) | |
| 3. Proposed denomination or breeder's reference | |
| 4. Information on origin, maintenance and reproduction of the variety<br>4.1 Method of mentainance and reproduction<br><br>4.2 Other information | |

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 (13)** | **Inflorescence: sex expression** | | |
| | monoecius | Alpha, Categoría | 1[…] |
| | andromonoecius | Piel de Sapo | 2[…] |
| **5. 2 (15)** | **Young fruit: intensity of green color of skin** | | |
| | very light | Solarking | 1[…] |
| | light | Fimel | 3[…] |
| | medium | Eros | 5[…] |
| | dark | Galia | 7[…] |
| | very dark | Eden | 9[…] |
| **5.3 (22)** | **Fruit before maturity: density of patches** | | |
| | absent or very weak | Rochet | 1[…] |
| | sparse | | 3[…] |
| | medium | Braco | 5[…] |
| | dense | Piel de Sapo | 7[…] |
| | very dense | | 9[…] |

| | Characteristics | Example Varieties | Note |
|---|---|---|---|
| **5.4 (29)** | **Fruit: ratio length/diameter** | | |
| | very small | Noir des Carmes | 1[…] |
| | very small to small | Arava, Clipper | 2[…] |
| | small | Buster, Galia | 3[…] |
| | small to medium | Aril, Edén | 4[…] |
| | medium | Doral, Tendral Negro | 5[…] |
| | medium to large | Sirocco, Verdol | 6[…] |
| | large | Categoría, Futuro | 7[…] |
| | large to very large | Iguana, Trujillo | 8[…] |
| | very large | Banana | 9[…] |
| **5.5 (31)** | **Fruit: shape of longitudinal section** | | |
| | oblate | Jívaro | 1[…] |
| | circular | Galia | 2[…] |
| | ovate | Piolín | 3[…] |
| | broad elliptic | | |
| | elliptic | Piel de Sapo | 4[…] |
| | elongated | Banana | 5[…] |
| | quadrangular | Zatta | 6[…] |
| **5.4 (32)** | **Fruit: ground color of skin <u>at maturity</u>** | | |
| | white | Albino | 1[…] |
| | yellow | Galia | 2[…] |
| | green | Piel de Sapo | 4[…] |
| | grey | Vedrantais | 5[…] |

| | Characteristics | Example Varieties | Note |
|---|---|---|---|
| **5.6 (46)** | **Fruit: grooves** | | |
| | absent or very weak | Piel de Sapo | 1[ ] |
| | present | Vedrantais | 9[ ] |
| **5.7 (52)** | **Fruit: pattern of cork formation** | | |
| | in small dots | Hermes, Vedrantais | 1[ ] |
| | dots and linear | Jívaro, Topper | 2[ ] |
| | linear | Futuro, Riosol | 3[…] |
| | linear and netted | Anatol, Chantal | 4[…] |
| | netted | Galia, Perlita | 5[…] |
| **5.8 (53)** | **Fruit: density of pattern of cork formation** | | |
| | absent or very sparse | Hermes, Vedrantais | 1[ ] |
| | sparse | Jívaro, Topper | 3[…] |
| | medium | Futuro, Riosol | 5[…] |
| | dense | Anatol, Chantal | 7[…] |
| | very dense | Galia, Perlita | 9[ ] |
| **5.9 (59)** | **Fruit: <u>main color</u> of flesh** | | |
| | white | Piel de Sapo | 1[…] |
| | green | Galia | 2[…] |
| | orange | Vedrantais | 3[…] |
| **5.10 (67)** | **Seed:color** | | 3[…] |
| | ivory | Amarillo oro s.b. | 1[…] |
| | cream-yellow | Piel de Sapo | 2[…] |

| | Characteristics | Example Varieties | Note |
|---|---|---|---|
| **5.11 (72)** | Conservation of fruits | | |
| | short | Charentais, Galia | 3[…] |
| | medium | Clipper | 5[…] |
| | long | Piel de Sapo | 7[…] |
| | very long | Tendral Negro | 9[…] |

6. Similar varieties and differences between these varieties

| Denomination of similar variety | Characteristic in which the similar variety is different [o)] | State of expression of similar variety | State of expression of candidate variety |
|---|---|---|---|
| | | | |

[o)] In the case of identical states of expressions of both varieties, please indicate the size of the difference.

7. Additional information which may help to distinguish the variety

7.1 Resistance to pests and diseases

7.2 Type of fruit (according table)

7.3 Shape of the seed (specially for green fruit types)

7.4 Speed of changing color at over-maturity

7.5 Special conditions for the examination of the variety

7.6 Other information

8. Authorization for release

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

Yes [ ] No [ ]

(b) Has such authorization been obtained?

Yes [ ] No [ ]

If the answer to that question is yes, please attach a copy of such an authorization.

[End of document]