

Technical questionnaire

***Cucumis sativus* L.**

Cucumber/ Gherkin

Version 14

Mandatory fields or sections are marked with an asterisk ()*

04. Information on the breeding scheme and propagation of the variety

04.01. Type of material: *

- ☐ 1 - hybrid
- ☐ 2 - cross-pollinated variety
- ☐ 3 - self-pollinated variety
- ☐ 4 - parent line

04.02. Method of propagation of the variety: *

- ☐ 1 - seed propagated
- ☐ 2 - vegetatively propagated

04.03. Seed propagated varieties: *

- ☐ 1 - cross-pollination
- ☐ 2 - hybrid
- ☐ 3 - other (please specify)

04.04. Vegetative propagated varieties *

- ☐ 1 - cuttings
- ☐ 2 - *in vitro* propagation
- ☐ 3 - other (state method):

05. Characteristics

(the number in brackets refers to the corresponding characteristic in the UPOV Technical Guidelines, please mark the state of expression which best corresponds).

05.00. Species *

- ☐ 1 - cucumber

- ☐ 2 - gherkin

(1) (G) 05.01. Cotyledon: bitterness *

- ☐ 1 - absent Rocket GS, Sandra
- ☐ 9 - present Farbio

(5) 05.01.01. Leaf blade: length

- ☐ 1 - very short
- ☐ 2 - very short to short
- ☐ 3 - short Adam
- ☐ 4 - short to medium
- ☐ 5 - medium Briljant
- ☐ 6 - medium to long
- ☐ 7 - long Corona
- ☐ 8 - long to very long
- ☐ 9 - very long

(8) 05.01.02. Leaf blade: intensity of green colour

- ☐ 1 - very light
- ☐ 2 - very light to light
- ☐ 3 - light De Russie
- ☐ 4 - light to medium
- ☐ 5 - medium Rocket GS, Stereo
- ☐ 6 - medium to dark
- ☐ 7 - dark Marketmore, Sandra, Tokyo Slicer
- ☐ 8 - dark to very dark
- ☐ 9 - very dark Akito

(13) (G) 05.02. Plant: sex expression *

- ☐ 1 - monoecious Hokus
- ☐ 2 - subgynoecious Toska 70
- ☐ 3 - gynoecious Farbio, Sandra, Wilma
- ☐ 4 - hermaphrodytic Sunsweet

(14) 05.02.01. Plant: number of female flowers per nodes *

- | | |
|--|-----------------|
| <input type="radio"/> 1 - predominantly one | Dasher, Faraón |
| <input type="radio"/> 2 - predominantly one or two | Brunex, Marumba |
| <input type="radio"/> 3 - predominantly two | Corona |
| <input type="radio"/> 4 - predominantly two or three | Tempo |
| <input type="radio"/> 5 - predominantly three or four | Tornac |
| <input type="radio"/> 6 - predominantly four or five | Melody |
| <input type="radio"/> 7 - predominantly more than five | Olympos |

(15) (G) 05.03. Ovary: colour of vestiture *

- | | |
|---------------------------------|---------------------|
| <input type="radio"/> 1 - white | Jazzer |
| <input type="radio"/> 2 - black | Vert petit de Paris |

(16) (G) 05.04. Parthenocarpy *

- | | |
|-----------------------------------|----------------------------------|
| <input type="radio"/> 1 - absent | Toska 70 |
| <input type="radio"/> 9 - present | Farbio, Rocket GS, Sandra, Wilma |

(17) (G) 05.05. Fruit: length *

- | | |
|--------------------------------------|--|
| <input type="radio"/> 1 - very short | Please indicate length in cm and/or comparable example varieties |
|--------------------------------------|--|

- | | |
|---|--|
| <input type="radio"/> 2 - very short to short | Please indicate length in cm and/or comparable example varieties |
|---|--|

- | | |
|---------------------------------|--|
| <input type="radio"/> 3 - short | Please indicate length in cm and/or comparable example varieties |
|---------------------------------|--|

☐ 4 - short to medium

Please indicate length in cm and/or comparable example varieties

☐ 5 - medium

Please indicate length in cm and/or comparable example varieties

☐ 6 - medium to long

Please indicate length in cm and/or comparable example varieties

☐ 7 - long

Please indicate length in cm and/or comparable example varieties

☐ 8 - long to very long

Please indicate length in cm and/or comparable example varieties

☐ 9 - very long

Please indicate length in cm and/or comparable example varieties

(22) 05.06. Fruit: shape of stem end *

☐ 1 - necked

Sandra, Tasty Green

☐ 2 - acute

De Massy

☐ 3 - obtuse

Maram, Score

(23) 05.06.01. Only necked varieties: Fruit: length of neck *

☐ 1 - very short

- ☐ 2 - very short to short
- ☐ 3 - short Saskia
- ☐ 4 - short to medium
- ☐ 5 - medium Corona, Telepathy
- ☐ 6 - medium to long
- ☐ 7 - long Kamaron
- ☐ 8 - long to very long
- ☐ 9 - very long Tasty Green

(25) (G) 05.07. Fruit: ground colour of skin at market stage *

- ☐ 1 - white Bonneuil
- ☐ 2 - yellow Gele Tros
- ☐ 3 - green Corona

(26) 05.07.01. Excluding white varieties: Fruit: intensity of ground colour of skin *

- ☐ 1 - very light
- ☐ 2 - very light to light
- ☐ 3 - light
- ☐ 4 - light to medium
- ☐ 5 - medium
- ☐ 6 - medium to dark
- ☐ 7 - dark
- ☐ 8 - dark to very dark
- ☐ 9 - very dark

(27) 05.07.02. Fruit: ribs *

- ☐ 1 - absent or weak Darius, Diana
- ☐ 2 - medium Sprint
- ☐ 3 - strong Vert petit de Paris

(29) 05.07.03. Fruit: creasing

- ☐ 1 - absent Jazzer
- ☐ 9 - present Corona, Nabil

(30) 05.07.04. Fruit: degree of creasing

- | | |
|---|-----------------|
| <input type="radio"/> 1 - very weak | Silor |
| <input type="radio"/> 2 - very weak to weak | |
| <input type="radio"/> 3 - weak | Nabil |
| <input type="radio"/> 4 - weak to medium | |
| <input type="radio"/> 5 - medium | Corona, Galileo |
| <input type="radio"/> 6 - medium to strong | |
| <input type="radio"/> 7 - strong | Grizzly |
| <input type="radio"/> 8 - strong to very strong | |
| <input type="radio"/> 9 - very strong | Suyo Long |

(31) 05.08. Fruit: type of vestiture *

- | | |
|--|------------------------|
| <input type="radio"/> 1 - hairs only | Silor |
| <input type="radio"/> 2 - hairs and prickles | De Bourbonne, De Massy |
| <input type="radio"/> 3 - prickles only | Corona, Jazzer |

(32) 05.08.01. Fruit: density of vestiture

- | | |
|---|---------------------|
| <input type="radio"/> 1 - very sparse | Vert petit de Paris |
| <input type="radio"/> 2 - very sparse to sparse | |
| <input type="radio"/> 3 - sparse | |
| <input type="radio"/> 4 - sparse to medium | |
| <input type="radio"/> 5 - medium | Tasty Green |
| <input type="radio"/> 6 - medium to dense | |
| <input type="radio"/> 7 - dense | Silor, Suyo Long |
| <input type="radio"/> 8 - dense to very dense | |
| <input type="radio"/> 9 - very dense | Moneta, Parmel |

(36) 05.08.02. Fruit: length of stripes *

- | | |
|--|--------|
| <input type="radio"/> 1 - absent or very short | |
| <input type="radio"/> 2 - very short to short | |
| <input type="radio"/> 3 - short | Astrea |
| <input type="radio"/> 4 - short to medium | |
| <input type="radio"/> 5 - medium | Breso |

- ☐ 6 - medium to long
- ☐ 7 - long Pioneer, Tokyo Slicer
- ☐ 8 - long to very long
- ☐ 9 - very long Suyo Long

(37) 05.08.03. Fruit : dots *

- ☐ 1 - absent Sensation
- ☐ 9 - present Delicatesse, Hanpaku Fushinari, Sagami Fanpaku, White Sun

(44) (G) 05.09. Resistance to *Cladosporium cucumerinum* (Ccu) *

- ☐ 1 - absent Cherubino, Frontera, Pepinex 69
- ☐ 9 - present Corona, Marketmore 76, Sheila

(45) (G) 05.10. Resistance to *Cucumber mosaic virus* (CMV) *

- ☐ 1 - susceptible Bosporus, Corona, Ventura
- ☐ 2 - moderately resistant Capra, Gardon, Verdon
- ☐ 3 - highly resistant Naf, Picolino

(46) (G) 05.11. Resistance to Powdery mildew (*Podosphaera xanthii*) (Px) *

- ☐ 1 - susceptible Corona, Ventura
- ☐ 2 - moderately resistant Flamingo
- ☐ 3 - highly resistant Aramon, Bella, Cordoba

(48) (G) 05.12. Resistance to *Corynespora blight and target leaf spot* (*Corynespora cassicola*) (Cca) *

- ☐ 1 - absent Bodega, Pepinova
- ☐ 9 - present Corona, Cumlaude

(49) (G) 05.13. Resistance to *Cucumber vein yellowing virus* (CVYV) *

- ☐ 1 - absent Corona, Korinda, Ventura
- ☐ 9 - present Dina, Summerstar, Tornac

06. Similar varieties and differences from these varieties

06.1. Are there any similar variety(ies) known? *

- ☐ 1 - yes
- ☐ 2 - no

06.2. Similar varieties and differences from these varieties: *

Denomination of similar variety	Characteristic in which the similar variety is different	State of expression of similar variety	State of expression of candidate variety

07. Additional information which may help to distinguish the variety**07.01. In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? ***

☐ Yes, specify

☐ No

07.02. Are there any special conditions for growing the variety or conducting the examination? *

☐ Yes, specify

☐ No

07.03. Other information**07.03.01. Resistances to pests and diseases (please specify races/strains if possible) ***

The examination offices test the resistances based on the resistance test protocols listed in the CPVO-TP in force. In case the applicant does assess the resistance based on a different protocol than the one mentioned in the CPVO-TP, please be aware that this could lead to discrepancies between your declaration and the results obtained by the examination office. This may also have important consequences on the conduct of the DUS testing as well as trigger additional tests and fees. In addition, for some resistances an alternative DNA marker test exists. As the phenotype is always leading, the declaration in this Technical Questionnaire should not be based on such DNA marker test only.

(47) 07.03.01.01. Resistance to *Pseudoperonospora cubensis* (Pcu) - Downy mildew *

- ☐ absent
- ☐ present
- ☐ not tested

(50) 07.03.01.02. Resistance to *Zucchini yellow mosaic virus* (ZYMV) *

- ☐ absent
- ☐ present
- ☐ not tested

(51) 07.03.01.03. Resistance to *Cucurbit yellow stunting disorder virus* (CYSDV) *

- ☐ absent
- ☐ present
- ☐ not tested

07.03.01.04. Other resistances to pests and diseases (fill none if you are not concerned)

Please specify

07.03.02. Main use *

- ☐ processing
- ☐ fresh market
- ☐ other

07.03.03. Type of culture *

- ☐ greenhouse, staked
- ☐ greenhouse, not staked
- ☐ in the open, staked
- ☐ in the open, not staked
- ☐ other

07.03.04. Fruit type *

- ☐ 1 - gherkin
- ☐ 2 - cucumber: Beth Alpha
- ☐ 3 - cucumber: Dutch type
- ☐ 4 - cucumber: American slicer
- ☐ 5 - cucumber: Asian
- ☐ 6 - cucumber: Other

Adam, Conny, Levina, Melody

Hana, Silor

Brunex, Corona, Dominant

Jazzer, Marketmore, Sprint.

No possibility for 2 DUS trials in one year for this type.

Sagami-Fankapu, White Sun

Fatum, Tine

07.03.05. Growing region

Please specify

07.03.06. Growing season *

- ☐ 1 - spring
- ☐ 2 - summer
- ☐ 3 - autumn
- ☐ 4 - winter

07.04. Photo

It is highly recommended to provide pictures. Otherwise, the organisation of the technical examination will be rendered less efficient, with the risk of an additional year of technical examination at the costs of the applicant.

Documents to be attached

08 . GMO-information requested

08.a. The variety represents a genetically modified organism (GMO) within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001 which requires authorization for release in the environment:

*

- ☐ 1 - yes
- ☐ 2 - no

08.b. If yes, has such authorization been obtained? *

- ☐ 1 - yes
- ☐ 2 - no

08.c. If yes, please attach a copy of such an authorization *

Documents to be attached

09 . Information on plant material to be examined

The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. Consequently the plant material to be examined should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

09.01. Micro-organisms (e.g. virus, bacteria, phytoplasma) *

- ☐ Yes, specify

- ☐ No

09.02. Chemical treatment (e.g. growth retardant or pesticide) *

☐ Yes, specify

☐ No

09.03. Tissue culture *

☐ Yes, specify

☐ No

09.04. Other factors *

☐ Yes, specify

☐ No