

## Technical questionnaire

**mango**

**CPVO/TQ-112**

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

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**01 . Botanical taxon: name of the genus, species or sub-species to which the variety belongs:**

*Mangifera indica* L.

Other (please specify)

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**02 . Application code:**

For office use only

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**03 . Breeder's reference:**

Breeder's Ref.

**04 . Information on the breeding scheme and propagation of the variety****04 . 01 . Breeding scheme \****(this question could be confidential)*

crossing

mutation

discovery

Please state where and when discovered and how the variety has been developed

other origin

Please provide details

**04 . 01.01 . Crossing \****(this question could be confidential)*

controlled cross

Indicate denomination and species of the parent varieties

partially known cross

Indicate denomination and species of the known parent variety(ies)

unknown cross

**04 . 01.02 . In case of mutation, please fill in the table below: \****(this question could be confidential)*

| Denomination of the parent variety | Characteristic(s) in which your candidate variety differs from the parent variety | Describe the expression of the characteristic(s) for the parent variety | Describe the expression of the characteristic(s) for your candidate variety |
|------------------------------------|---|---|---|
|                                    |   |   |   |
|                                    |   |   |   |
|                                    |   |   |   |
|                                    |   |   |   |

**04 . 02 . Method of propagation of the variety \***

vegetatively propagated

Please specify the method

seed propagated



**04 . 03 . In the case of seed propagated varieties, method of production: \***

self-pollination

cross pollination

hybrid

other method

Please specify

**05 . Characteristics of the variety to be indicated**

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

**05 . 01 . Mature fruit: ratio length/width (22) \***

1 - very small Extrema, Santa Alexandrina

2 - very small to small

3 - small Fascell, Sheil

4 - small to medium

5 - medium Sensation, Tommy Atkins

6 - medium to large

7 - large Carrie, Gouveia

8 - large to very large

9 - very large Anderson, Sabre

**05 . 02 . Mature fruit: shape of ventral shoulder (32) \***

1 - rounded upward Tommy Atkins

2 - rounded outward Florigon, Irwin, Palmer, Zill

3 - rounded downward Keitt, Ruby, Sandersha

4 - sloping downward Long Green

5 - falling abruptly

**05 . 03 . Mature fruit: shape of dorsal shoulder (33) \***

1 - rounded upward

2 - rounded outward Fascell

3 - rounded downward Irwin, Ruby, Zill

4 - sloping downward Keitt

5 - falling abruptly Long Green, Palmer, Sandersha

**05 . 04 . Mature fruit: presence of sinus (37) \***

1 - absent Fascell, Hood, Kent

9 - present Gouveia, Sabre, Sandersha



**05 . 05 . Mature fruit: bulging proximal of stylar scar (39) \***

|                    |                 |
|--------------------|-----------------|
| 1 - absent or weak | Adams, Anderson |
| 2 - medium         |                 |
| 3 - strong         | Nimrod, Sheil   |

**05 . 06 . Seed: embryony (55) \***

|                   |                         |
|-------------------|-------------------------|
| 1 - monoembryonic | Sensation, Tommy Atkins |
| 2 - polyembryonic | Peach, Sabre            |

**05 . 07 . Time of fruit maturity (57) \***

|                         |                                  |
|-------------------------|----------------------------------|
| 1 - very early          | Early Gold, Florigon, Long Green |
| 2 - very early to early |                                  |
| 3 - early               | Zill                             |
| 4 - early to medium     |                                  |
| 5 - medium              | Fascell, Nimrod, Tommy Atkins    |
| 6 - medium to late      |                                  |
| 7 - late                | Sensation                        |
| 8 - late to very late   |                                  |
| 9 - very late           | Keitt                            |

**06 . Similar varieties and differences from these varieties**

Please note that information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing.

**06 . 01 . Are there any similar varieties known? \***

Yes

No

**06 . 02 . Similar varieties and differences from these varieties: \***

| Denomination(s) of variety(ies) similar to your candidate variety | Characteristic(s) in which your candidate variety differs from the similar variety(ies) | Describe the expression of the characteristic(s) for the similar variety(ies) | Describe the expression of the characteristic(s) for your candidate variety |
|---|---|---|---|
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |
|   |   |   |   |



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**07 . Additional information which may help to distinguish the variety \***

**07 . 01 . Resistance to pests and diseases \***

Yes, specify

No

**07 . 02 . In addition to the information provided in sections 05 and 06, are there any additional characteristics which may help to distinguish the variety? \***

Yes, specify

No

**07 . 03 . Are there any special conditions for growing the variety or conducting the examination? \***

Yes, specify

No

**07 . 04 . Other information \***

Yes, specify

No

**07 . 05 . Photo \***

A representative colour photo of the variety must be **added** to the technical questionnaire.

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**08 . GMO-information \***

**08 . 01 . GMO-information required \***

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

Yes

If yes, please attach in point 08.02 a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

No

**08 . 02 . In case of GMO, joint attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.**



**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

**10 . Possible place of the technical examination**

In case the CPVO needs to arrange a technical examination for this candidate variety, there might be more than one examination office entrusted by the CPVO suitable to grow your variety. In this case, the Office will decide on the place of the technical examination but you might wish to express here a preference in respect of an examination office. The available entrusted examination offices for that species can be found in the S3 Gazette under:<http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/entrusted-examination-offices>

You will also find in the S2 Gazette further information about submission of plant material and deadlines for numerous major species:<http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/submission-of-plant-material-s2-publication>

**10 . 01 . Country where the examination could take place**

Country

**Attached document(s)**

The following forms or documents are attached to this application : please tick the relevant boxes

Other confidential documents

Photo

Remark



**DECLARATIONS \***

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Place

Date

Name

Signature

