

Technical questionnaire

walnut

CPVO/TQ-125

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

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

Juglans regia L.

Other species (please specify)

02 . Application code:

For office use only

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 . Tree: growth habit (1) *

1 - upright	Come, Daifeng, Daixiang, Fenghui, Sorrento, Xinzaofeng, Zhonglin 1
2 - semi-upright	Alsószentiváni 117, Chuanhe 2, Franquette, Hartley, Liaoning 1, Liaoning 4, Marbot, Shaanhe 1
3 - spreading	Gustine, Jinfeng, Jinlong 1, Jinlong 2, Luguang, Mlotai 10, Payne, Shangsong 6, Vina, Xilin 2, Zhonglin 5

05 . 02 . Bud: shape (3) *

1 - circular	Daixiang, Jinlong 1, Luguang, Luguo 2, Mlotai 10, Xiangling, Xilin 2, Xinzaofeng, Zhonglin 1
2 - flabellate	Fenghui
3 - triangular	Chuanhe 2, Liaoning 4, Zhenzhuhetao

05 . 03 . Leaflet: shape (4) *

1 - very narrow elliptic	
2 - very narrow elliptic to narrow elliptic	
3 - narrow elliptic	Daifeng, Daixiang, Hartley, Liaoning 1, Payne, Shangsong 6, Vina
4 - narrow elliptic to medium elliptic	
5 - medium elliptic	Come, Franquette, Marbot
6 - medium elliptic to broad elliptic	
7 - broad elliptic	Adam 10, Chase D 9
8 - broad elliptic to very broad elliptic	
9 - very broad elliptic	



05 . 04 . Female flower: number per cluster (6) (G) *

1 - 1-2	Jinlong 1, Luguang, Xiangling, Xilin 2
2 - 3-4	Shaanhe 1
3 - 5-10	
4 - 11-20	Qinyou 1, Tisa
5 - more than 20	Chuanhetao

05 . 05 . Female flower: Intensity of yellow colour of stigma (7) (G) *

1 - light	Daifeng, Daixiang, Mlotai 10
2 - medium	Jinlong 1, Jinlong 2, Xiangling, Xinzaofeng, Zhonglin 1, Zhonglin 5
3 - dark	Xifu 2

05 . 06 . Infructescence: type (8) (G) *

1 - solitary	Mlotai 10
2 - binate	Daifeng, Daixiang, Fenghui, Jinlong 1, Liaoning 1, Liaoning 4, Luguang, Luguang 2, Xiangling, Xilin 2, Zhonglin 5
3 - fascicled	Shaanhe 1
4 - bunched	Chuanzihetao

05 . 07 . Nut: shape in ventral view (10) (G) *

1 - triangular	Hartley
2 - broad ovate	Marbot, Payne, Serr
3 - ovate	Gustine, Jinfeng
4 - oblong	Mlotai b term , Mumahetao, Sunland
5 - elliptic	Come, Daifeng, Franquette, Sorrento, Xilin 2
6 - circular	Jinlong 1, Jinlong 2, Liaoning 4, Mlotai 10, Meylannaise, Xiangling, Zhonglin 1, Zhonglin 5
7 - broad elliptic	Parisienne, Luguang

05 . 08 . Nut: shape in lateral view (11) *

1 - triangular	Hartley
2 - broad ovate	Payne, Serr, Xiangling
3 - ovate	Gustine, Jinfeng
4 - circular	Meylannaise, Mlotai 10
5 - broad elliptic	Franquette
6 - oblate	Yuanbao

05 . 09 . Nut: shape in cross section (12) *

1 - reniform	
2 - oblate	Chico, Franquette, Jupiter, Liaoning 1
3 - circular	Marbot, Mlotai 10, Payne, Victoria, Xiangling
4 - elliptic	Come, Hartley, Serr



05 . 10 . Nut: shape of base in lateral view (13) *

1 - cuneate	Corne, Mlotai b term
2 - rounded	Chico, Franquette, Payne, Serr, Xiangling
3 - truncate	Parisienne
4 - emarginate	Hartley

05 . 11 . Nut: shape of apex in lateral view (14) *

1 - obtuse	Vina
2 - rounded	Zhonglin 1
3 - truncate	Mlotai b term , Zhonglin 5
4 - emarginate	Xiangling

05 . 12 . Nut: length of tip (15) *

1 - absent or short	Grandjean, Mlotai 10, Xiangling
2 - medium	Chico, Corne, Hartley, Hexuan
3 - long	Franquette, Marbot, Payne, Serr, Victoria

05 . 13 . Nut: extent of pad around suture (16) *

1 - on upper half	Chico, Hartley, Marbot, Parisienne, Xiangling
2 - on upper 2/3	Franquette, Gustine, Jupiter, Liaoning 1, Liaoning 4, Payne, Pedro
3 - on whole length	Honghuadian 1

05 . 14 . Nut: prominence of pad on suture (17) *

1 - very weak	Luguang
2 - weak	Chuanhe 2, Jinlong 2
3 - medium	Chico, Grandjean
4 - strong	Franquette, Hartley, Marbot, Payne, Serr
5 - very strong	Xifu 2

05 . 15 . Nut: thickness of shell (24) (G) *

1 - very thin	Daifeng, Fenghui, Liaoning 1, Liaoning 4, Luguang, Lugu 2, Lübo, Pedro, Serr, Xiangling
2 - thin	Chico, Daixiang, Jinlong 1, Jinlong 2, Payne, Serr, Xilin 2, Xinzaofeng, Zhonglin 1, Zhonglin 5
3 - medium	Chahetao, Franquette, Hartley, Marbot, Mlotai 10
4 - thick	Corne, Shitou
5 - very thick	



05 . 16 . Kernel: colour of endopleura (25) (G) *

1 - white	Jinmian 2
2 - yellowish white	Eszterhazy II, Liaoning 1
3 - yellow	Daifeng, Mlotai 10
4 - red	Honghetao, Hongranghetao
5 - purple	Chuanhe 2, Sychrov
6 - yellow brown	Baipihetao
7 - light brown	Alsószentiváni 117, Shangsong 6
8 - medium brown	Zhonglin 5
9 - dark brown	

05 . 17 . Time of male flowering compared to female flowering (29) *

1 - before	Franquette, Liaoning 1, Liaoning 4, Marbot, Payne, Xiangling
2 - simultaneous	Chico, Meylannaise, Xilin 2
3 - after	Lübo, Mlotai 10

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

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.

08 . GMD-Information

08 . 01 . GMD-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 GMD, 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

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Country



Attached document(s)

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

- Application form, confidential part (original only)
- Technical questionnaire (original only)
- Technical questionnaire, confidential part (original only)
- Form of designation of a procedural representative
- Documentary evidence of entitlement to file an application
- Priority claim (certified copy of the first application)
- Form "Details of payment"
- Photographs (in case of fruit and ornamental varieties)
- Copy of the relevant written release consent (for GMOs)
- Others, please specify

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

