

Technical questionnaire

French bean

Version 15

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:

☐ *Phaseolus vulgaris* L.

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 . Type of material *

- ☐ hybrid
- ☐ cross-pollinated variety
- ☐ self-pollinated variety
- ☐ parental line

04 . 01.01 . Parental line use

(this question could be confidential)

In many cases there is a link in morphological expression of characteristics between the parental line and its hybrids. Therefore, it is recommended to provide information about the identity of hybrid varieties where the parental line is used. This makes the organisation of the technical examination more efficient and lowers the risk of an additional year at the costs of the applicant. This information will only be shared with the examination office in charge of the technical examination.

In accordance with Article 88(3) of Regulation 2100/1994 the Office will treat the information under this section as confidential on request of the applicant.

Please indicate for the production of which hybrid variety(ies) the parental line is used

04 . 02 . Method of propagation of the variety *

- ☐ seed propagated
- ☐ vegetatively propagated

Please specify

04 . 03. . Should the following question on genetic origin and breeding method be treated as confidential? *

- ☐ Yes
- ☐ No

04 . 04 . Confidentiality justification **(this question could be confidential)*

Please explain why the information is to be considered as confidential and how its disclosure would harm your commercial interests (included but not limited to business relations, manufacturing secrets, expertise, commercial strategies, intellectual property) under Article 4(2) of Regulation 1049/2001. Since the general rule is transparency, it is in your best interest to provide strong reasons to support your request for confidentiality. If a public access request is received, the Office will evaluate your justifications and decide whether to disclose or not the information.

Please provide detailed explanations *

04 . 05 . Information on the breeding method and the genetic origin of the application*(this question could be confidential)*

breeding method

parentage with any other varieties

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 . 01 . Plant: growth type (2) (G) *

- ☐ 1 - dwarf Callide (D), Capitole (D)
- ☐ 2 - climbing Phenomene (C), Bade (C)

05 . 02 . Leaf: intensity of green colour (9) *

- ☐ 1 - very light
- ☐ 2 - very light to light
- ☐ 3 - light Rote von Paris (D), Goldelfe (C)
- ☐ 4 - light to medium
- ☐ 5 - medium Fori (D), Valja (D)
- ☐ 6 - medium to dark
- ☐ 7 - dark Dubra (D), Goldfish (D), Silvia (C)
- ☐ 8 - dark to very dark
- ☐ 9 - very dark Diva (D)

05 . 03 . Flower: size of bract (15) *

- | | |
|---|--|
| <input type="radio"/> 1 - very small | |
| <input type="radio"/> 2 - very small to small | |
| <input type="radio"/> 3 - small | Fanion (D), Nerina (D), Ryco (D), Fidel (C), Markant (C) |
| <input type="radio"/> 4 - small to medium | |
| <input type="radio"/> 5 - medium | Torrina (D), Meicy (C) |
| <input type="radio"/> 6 - medium to large | |
| <input type="radio"/> 7 - large | Label (D), Pfälzer Juni (D), Toplong (C) |
| <input type="radio"/> 8 - large to very large | |
| <input type="radio"/> 9 - very large | |

05 . 04 . Flower: colour of standard (16) (G) *

- | | |
|--|--------------------------------|
| <input type="checkbox"/> 1 - white | Tuf (D) |
| <input type="checkbox"/> 2 - pinkish white | |
| <input type="checkbox"/> 3 - pink | Maxi (D), Vilbel (D) |
| <input type="checkbox"/> 4 - violet | Delinel (D), Purple Teepee (D) |

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05 . 05.01 . Dwarf beans only: Pod: length (excluding beak) (18) *

<input type="radio"/> 1 - very short	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 2 - very short to short	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 3 - short	Prelude (D), Tuf (D) Please indicate length in cm
	<input type="text"/>
<input type="radio"/> 4 - short to medium	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 5 - medium	Amity (D), Lusia (D) Please indicate length in cm
	<input type="text"/>
<input type="radio"/> 6 - medium to long	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 7 - long	Dubra (D), Loma (D) Please indicate length in cm
	<input type="text"/>
<input type="radio"/> 8 - long to very long	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 9 - very long	Daisy (D), Longking (D), Maja (D) Please indicate length in cm
	<input type="text"/>



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05 . 05.02 . Climbing beans only: Pod: length (excluding beak) (19) *

<input type="radio"/> 1 - very short	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 2 - very short	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 3 - short	Juwagold (C)Please indicate length in cm
	<input type="text"/>
<input type="radio"/> 4 - short to medium	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 5 - medium	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 6 - medium to long	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 7 - long	Fidel (C)Please indicate length in cm
	<input type="text"/>
<input type="radio"/> 8 - long to very long	Please indicate length in centimeters
	<input type="text"/>
<input type="radio"/> 9 - very long	Toplong (C)Please indicate length in cm
	<input type="text"/>



05 . 06 . Pod: width at maximum point (20) *

<input type="radio"/> 1 - very narrow	Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 2 - very narrow to narrow	Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 3 - narrow	Cabri (D), Tuf (D), Necores (C) Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 4 - narrow to medium	Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 5 - medium	Regulex (D), Meicy (C) Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 6 - medium to broad	Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 7 - broad	Pfälzer Juni (D), Peter von Marbach (C) Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 8 - broad to very broad	Please indicate width in mm
	<input type="text"/>
<input type="radio"/> 9 - very broad	Please indicate width in mm
	<input type="text"/>

05 . 07 . Pod: shape of cross section (through seed) (22) (G) *

<input type="checkbox"/> 1 - narrow elliptic	
<input type="checkbox"/> 2 - elliptic to ovate	Pascal (D), Pfälzer Juni (D), Regulex (D)
<input type="checkbox"/> 3 - cordate	Daisy (D)
<input type="checkbox"/> 4 - circular	Tuf (D)
<input type="checkbox"/> 5 - eight shaped	Tendercrop White Seeded (D)

05 . 08 . Pod: ground colour (24) (G) *

<input type="radio"/> 1 - yellow	Golddukat (D), Goldfish (D), Goldmarie (C)
<input type="radio"/> 2 - green	Filetty (D), Diva (D), Fortissima (C)
<input type="radio"/> 3 - violet	Purpiat (D), Purple Teepee (D)

05 . 09 . Pod: intensity of ground colour (25)

- | | |
|---|---|
| <input type="radio"/> 1 - very light | |
| <input type="radio"/> 2 - very light to light | |
| <input type="radio"/> 3 - light | Erato (D), Fortissima (C) |
| <input type="radio"/> 4 - light to medium | |
| <input type="radio"/> 5 - medium | Gabriella (D), Filetty (D), Prelude (D) |
| <input type="radio"/> 6 - medium to dark | |
| <input type="radio"/> 7 - dark | Decibel (D), Golddukat (D), Purpiat (D) |
| <input type="radio"/> 8 - dark to very dark | |
| <input type="radio"/> 9 - very dark | |

05 . 10 . Pod: secondary colour (26) *

- | | |
|-----------------------------------|------------|
| <input type="radio"/> 1 - absent | Tuf (D) |
| <input type="radio"/> 9 - present | Marbel (D) |

05 . 11 . Pod: stringiness on ventral suture (29) (G) *

- | | |
|-----------------------------------|-----------------------|
| <input type="radio"/> 1 - absent | Cabri (D), Tuf (D) |
| <input type="radio"/> 9 - present | Facta (D), Marbel (D) |

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05 . 12 . Seed: weight (37) *

- | | |
|---|---|
| <input type="radio"/> 1 - very low | Cabri (D), Decibel (D), Label (D)Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 2 - very low to low | Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 3 - low | Belfin (D), Ingo (D)Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 4 - low to medium | Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 5 - medium | Duplica (D), Konservenstolz (D), Juwagold(C)Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 6 - medium to high | Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 7 - high | Regulex (D), Fidel (C)Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 8 - high to very high | Please indicate the 1000 seeds weight |
| | <input type="text"/> |
| <input type="radio"/> 9 - very high | Facta (D), Rote von Paris (D), Precores (C)Please indicate the 1000 seeds weight |
| | <input type="text"/> |

05 . 13 . Seed: number of colours (43) (G) *

- | |
|---|
| <input type="radio"/> 1 - one |
| <input type="radio"/> 2 - two |
| <input type="radio"/> 3 - more than two |

05 . 14 . Seed: main colour (largest area) (42) (G) *

- | | |
|--|----------------------------------|
| <input type="checkbox"/> 1 - white | Goldfish (D), Tuf (D) |
| <input type="checkbox"/> 2 - green or greenish | Muriel (D), Pascal (D) |
| <input type="checkbox"/> 3 - grey | |
| <input type="checkbox"/> 4 - yellow | Gele Citroen (D) |
| <input type="checkbox"/> 5 - beige | Blauhilde (C), Purple Teepee (D) |
| <input type="checkbox"/> 6 - brown | Primel (D), Sunray (D) |
| <input type="checkbox"/> 7 - red | Fageolet rouge (D) |
| <input type="checkbox"/> 8 - violet | |
| <input type="checkbox"/> 9 - black | Delinel (D), Vilbel (D) |

05 . 15 . Seed: predominant secondary colour (45) (G) *

- | | |
|-------------------------------------|-----------------|
| <input type="checkbox"/> 1 - grey | |
| <input type="checkbox"/> 2 - yellow | |
| <input type="checkbox"/> 3 - beige | |
| <input type="checkbox"/> 4 - brown | |
| <input type="checkbox"/> 5 - red | Fiori (D) |
| <input type="checkbox"/> 6 - violet | Marbel (D) |
| <input type="checkbox"/> 7 - black | Brittle Wax (D) |

05 . 16 . Time of flowering (50% of the plants with at least one flower) (48) *

- | | |
|---|--|
| <input type="radio"/> 1 - very early | Pfälzer Juni (D) Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 2 - very early to early | Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 3 - early | Prelude (D), Fortissima (C), Perle von Marbach (C) Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 4 - early to medium | Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 5 - medium | Fanion (D), Groffy (D), Labrador (D), Hilda (C), Precoces (C) Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 6 - medium to late | Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 7 - late | Necores (C) Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 8 - late to very late | Please indicate an example variety |
| | <input type="text"/> |
| <input type="radio"/> 9 - very late | Please indicate an example variety |
| | <input type="text"/> |

05 . 17 . Resistance to Bean anthracnose (*Colletotrichum lindemuthianum*) - Race 6 (49.1) (G) *

- | | |
|-----------------------------------|---------------------------|
| <input type="radio"/> 1 - absent | Goldrush, Masai, Michelet |
| <input type="radio"/> 9 - present | Booster, Pastoral |

05 . 18 . Resistance to Bean anthracnose (*Colletotrichum lindemuthianum*) - Race Kappa (49.2)

- | | |
|-----------------------------------|---------------------------|
| <input type="radio"/> 1 - absent | Goldrush, Masai, Michelet |
| <input type="radio"/> 9 - present | Booster, Pastoral |

05 . 19 . Resistance to Bean Common Mosaic Necrosis Virus (BCMV) (50) (G) *

- | | |
|--|------------------|
| <input type="radio"/> 1 - absent | Dufrix, Flandria |
| <input type="radio"/> 2 - present with necrosis | Booster, Odessa |
| <input type="radio"/> 3 - present without symptoms | Bizet |

05 . 20 . Resistance to Halo Blight (*Pseudomonas savastanoi* pv. *phaseolicola*) - Race 6 (51) *

- | | |
|-----------------------------------|--------------------|
| <input type="radio"/> 1 - absent | Michelet (D) |
| <input type="radio"/> 9 - present | Masai (D) Vaillant |

05 . 21 . Resistance to Common Blight (*Xanthomonas axonopodis* pv. *phaseoli*) (Xap) - Isolate 422 (52)

- | | |
|-----------------------------------|-----------------------|
| <input type="radio"/> 1 - absent | Echo (D), Keygold (D) |
| <input type="radio"/> 9 - present | Walley (US line) (D) |

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 . 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? ***07 . 02 . 02 . Part mainly consumed ***

- ☐ pod
☐ seed

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07 . 02 . 03 . Main use *

- ☐ fresh market or garden
- ☐ canning
- ☐ other

Please indicate type

Please specify

07 . 02.01 . Type of culture *

- ☐ in the greenhouse
- ☐ in the open field

07 . 02.04 . Are there any special conditions for growing the variety or conducting the examination? *

- ☐ Yes, specify
- ☐ No

07 . 03 . Other information *

07 . 03.01 . Resistance to pests and diseases *

- ☐ Yes, specify
- ☐ No

07 . 03.02 . Other information *

- ☐ Yes, specify
- ☐ No

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.

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
- ☐ No

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.

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 . Other factors ***☐ Yes, specify☐ No

Breeder's Ref.

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

