

## Technical questionnaire

**maize**

**CPVO/TQ-002/3**

*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:**

*Zea mays* L.

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**02 . Application code:**

For office use only

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**03 . Breeder's reference:**

Breeder's Ref.

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

**04 . 01 . Breeding scheme \***

**04 . 01.01 . Type of material \***

*(this question could be confidential)*

inbred line

Please specify the genetic origin:

single-cross hybrid

three-way cross hybrid

double-cross hybrid

open-pollinated variety

other

Indicate formula

**04 . 01.02 . Variety resulting from: \***

**04 . 01.02.01 . Crossing**

*(this question could be confidential)*

controlled cross (indicate parent varieties)

partially known cross (indicate known parent variety(ies))

unknown cross

**04 . 01.02.02 . Mutation**

*(this question could be confidential)*

Please state parent variety

**04 . 01.02.03 . Discovery and development \***

*(this question could be confidential)*

Please state when the variety was discovered \*

Please state where the variety was discovered \*

Please state how the variety has been developed \*

**04 . 01.02.04 . Other information on the origin of the variety**

*(this question could be confidential)*

Please specify

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

**04 . 02.01 . In the case of hybrid varieties the production scheme should be provided. This should provide details of all the parent lines required for propagating the hybrid e.g.**

**04 . 02.01.01 . Single hybrid**

*(this question could be confidential)*

Denomination or breeder's reference of female parental line of single hybrid

Denomination or breeder's reference of male parental line of single hybrid

( )x( )



**04 . 02.01.02 . Three-Way hybrid**

(	female parent of single hybrid - A	)x(	male parent of single hybrid - B	)
(	single hybrid used as parent - AB	)x(	male or female parent of three-way hybrid - C	)
(	Three-way hybrid - (AB)C	)x(		)

**04 . 02.01.03 . Double Hybrid**

(	female parent of single hybrid - A	)x(	male parent of single hybrid - B	)
(	female parent of single hybrid - C	)x(	male parent of single hybrid - D	)
(	single hybrid A x B used as female parent	)x(	single hybrid C x D used as female parent	)
(	Double hybrid (AB) (CD)	)x(		)

**04 . 02.01.04 . The production scheme should identify in particular:***(this question could be confidential)*

any male sterile female parent lines

maintenance system of male sterile female parent lines

**04 . 02.02 . Open-pollinated variety***(this question could be confidential)*

Please provide details

**04 . 02.03 . Other information on the method of propagating the variety***(this question could be confidential)*

Please specify

**04 . 03 . Notification concerning a technical examination carried out with a DUS system of breeders participation (e.g. French maize testing system) \***

In case of hybrids, please give the requested information for each component too (you may use the confidential part of the technical questionnaire to indicate this information):

No, the variety has not been notified for being tested under such system

Yes, the variety has been notified for being tested under this system

**04 . 03.01 . If you notified the Examination Office on your intention to use the breeders participation system (for the hybrid and/or its components), please attach a copy of the notification(s) bearing a confirmation stamp of the Examination Office.**

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

(the number in brackets refers to the corresponding characteristic in the CPVO Technical Protocol; please mark the state of expression which best corresponds)

**05 . 01 . Tassel: time of anthesis (6) \***

1 - very early	
2 - very early to early	KW1069, Spirit (SC)
3 - early	F257, Champ (SC)
4 - early to medium	F259, Centurion (SC)
5 - medium	F522, Zenith (SC)
6 - medium to late	A632
7 - late	B73
8 - late to very late	AM1513
9 - very late	

**05 . 02 . Tassel: anthocyanin coloration at base of glume (7) \***

If **Segregation** for this characteristic in the case of three-way hybrids or double-cross hybrids or open-pollinated varieties, please indicate several notes.

1 - absent or very weak	W117, Royalty (SC)
2 - very weak to weak	
3 - weak	F66, Boston (SC)
4 - weak to medium	
5 - medium	F107
6 - medium to strong	
7 - strong	EP1
8 - strong to very strong	
9 - very strong	



**05 . 03 . Ear: anthocyanin coloration of silks (14) \***

If **Segregation** for this characteristic in the case of three-way hybrids or double-cross hybrids or open-pollinated varieties, please indicate several notes.

1 - absent or very weak	F7, F195, Bonus (SC)
2 - very weak to weak	
3 - weak	F257, El Toro (SC)
4 - weak to medium	
5 - medium	F244, Gyöngymazsola (SC)
6 - medium to strong	
7 - strong	W401
8 - strong to very strong	
9 - very strong	

**05 . 04.01 . Only inbred lines and varieties with ear type of grain: sweet or pop: Plant: length (22.1)**

1 - very short	F7
2 - very short to short	
3 - short	W117, Spirit (SC)
4 - short to medium	
5 - medium	F244, Puma (SC)
6 - medium to long	
7 - long	WD36, Royalty (SC)
8 - long to very long	
9 - very long	Enterprise (SC)

**05 . 04.02 . Only hybrids and open-pollinated varieties, excluding varieties with ear type of grain: sweet or pop: Plant: length (22.2)**

1 - very short	
2 - very short to short	
3 - short	PR39D23
4 - short to medium	
5 - medium	PR37Y12
6 - medium to long	
7 - long	DKC5166
8 - long to very long	
9 - very long	Alimare



**05 . 05 . Ear: type of grain (34) \***

If **Segregation** for this characteristic in the case of three-way hybrids or double-cross hybrids or open-pollinated varieties, please indicate several notes.

1 - flint	F2
2 - flint-like	F252
3 - intermediate	F107
4 - dent-like	A654
5 - dent	W182E
6 - sweet	Jubilee (SC)
7 - pop	Iowa Pop (PC)
8 - waxy	
9 - flour	

**05 . 06 . Excluding varieties with ear type of grain: sweet: Ear: colour of dorsal side of grain (37) \***

If **Segregation** for this characteristic in the case of three-way hybrids or double-cross hybrids or open-pollinated varieties, please indicate several notes.

1 - white	F481
2 - yellowish white	A188
3 - yellow	
4 - yellow orange	F66
5 - orange	EP1
6 - red orange	
7 - red	
8 - purple	
9 - brownish	
10 - blue black	

**05 . 07 . Ear: anthocyanin coloration of glumes of cob (39) \***

If **Segregation** for this characteristic in the case of three-way hybrids or double-cross hybrids or open-pollinated varieties, please indicate several notes.

1 - absent or very weak	F2, F257
2 - very weak to weak	
3 - weak	F252
4 - weak to medium	
5 - medium	W117
6 - medium to strong	
7 - strong	A632
8 - strong to very strong	
9 - very strong	



**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 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 . 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 \*****07 . 04.01 . Sweet corn varieties only: type**

normal sweet varieties (su1)

sugary enhanced varieties (se)

super sweet varieties (sh2)

other

**07 . 04.02 . FAO maturity class \***

Please indicate the average FAO maturity class \*

**07 . 04.03 . Other information \***

Yes, specify

No



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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.**

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**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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**Attached document(s)**

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

Other confidential documents

Other documents

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

