



Technical questionnaire

kale (palmkale, tronchuda)

Version 9

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:

Brassica oleracea L. (Curly kale Group) (syn. *Brassica oleracea* L. var. *sabellica* L.)

Brassica oleracea L. (Tronchuda Group) (syn. *Brassica oleracea* L. var. *costata* DC.)

Brassica oleracea L. (Collard Group) (syn. *Brassica oleracea* L. convar. *acephala* (DC.) Alef. var. *viridis* L.)

Brassica oleracea L. (Kale Group) (syn. *Brassica oleracea* L. convar. *acephala* (DC.) Alef.)

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 . 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 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 . Plant: height (1) *

1 - very short	
2 - very short to short	
3 - short	Lage Moskrul, Starbor
4 - short to medium	
5 - medium	Darkibor, Marriot, Rossignol
6 - medium to tall	
7 - tall	Esthe, Fizz, Nero di Toscana, Redbor
8 - tall to very tall	
9 - very tall	Ostfriesische Palme

05 . 02 . Plant: position of growing point (3) (G) *

1 - lower part	Esthe, Fizz
2 - lower to middle part	Halbhoher grüner krauser
3 - middle part	Black Magic, Kobolt
4 - middle to upper part	
5 - upper part	Dwarf Green Curled, Kadet, Westlandse Herfst

05 . 03 . Leaf: attitude (8) *

1 - erect	Esthe, Nero di Toscana
2 - erect to semi-erect	
3 - semi-erect	Cottagers, Redbor
4 - semi-erect to horizontal	
5 - horizontal	Marriot

05 . 04 . Leaf: colour (9) (G) *

1 - light green	Tintoreto
2 - medium green	Dwarf Green Curled, Esthe
3 - dark green	Kapitan
4 - grey green	Fizz
5 - blue green	Black Magic, Nero di Toscana
6 - reddish green	Redbor
7 - purple	Rednex

05 . 05 . Leaf: variegation (11) (G) *

1 - absent	Esthe
9 - present	Frost Byte, Purple Varie

05 . 06 . Leaf blade: length (14) *

1 - very short	
2 - very short to short	
3 - short	Redbor, Westlandse Herfst
4 - short to medium	
5 - medium	Esthe
6 - medium to long	
7 - long	Nero di Toscana
8 - long to very long	
9 - very long	

05 . 07 . Leaf blade: width (15) *

1 - very narrow	
2 - very narrow to narrow	Raven
3 - narrow	Dwarf Green Curled, Redbor
4 - narrow to medium	
5 - medium	Cottagers, Esthe, Fizz
6 - medium to broad	
7 - broad	Beira
8 - broad to very broad	
9 - very broad	

05 . 08 . Leaf blade: length/width ratio (16) *

1 - very low	
2 - very low to low	Marriot
3 - low	Beira
4 - low to medium	Dauro
5 - medium	Esthe, Redbor, Tintoreto
6 - medium to high	Fizz
7 - high	
8 - high to very high	Black Magic, Lerchenzungen
9 - very high	Nero di Toscana

05 . 09 . Leaf blade: depth of incisions (18) *

1 - absent or shallow	Esthe, Nero di Toscana
2 - shallow	
3 - medium	
4 - medium to deep	
5 - deep	Fizz

05 . 10 . Leaf blade: undulation of margin (23) *

1 - absent or very weak	Cottagers, Esthe
2 - weak	Pentland Brig
3 - medium	Redbor
4 - strong	Dwarf Green Curled
5 - very strong	Westlandse Herfst

05 . 11 . Male sterility (28) *

1 - absent	Esthe, Westlandse Herfst
9 - present	Winnetou

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? *

Yes, specify

No

07 . 03 . Other information *

Yes, specify

No

07 . 04 . Photo

It is highly recommended to provide pictures (up to five). 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. Full guidance on the picture quality can be found here

07 . 04.01 . Details of the photo(s)

Place and conditions under which the material shown in the photo was grown (e.g. plants grown in the greenhouse vs. grown in the open field)

Date of the photo(s) (month and year)

07 . 04.02 . Attached photo(s)

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 . Other factors *

Yes, specify

No

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