Technical Committee TC/59/10

Fifty-Ninth Session Geneva, October 23 and 24, 2023

Date: September 12, 2023

Original: English

PARTIAL REVISION OF THE TEST GUIDELINES FOR BRUSSELS SPROUTS

Document prepared by an expert from the Netherlands

Disclaimer: this document does not represent UPOV policies or quidance

- 1. The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for Brussels Sprouts (document TG/54/7 Rev.).
- 2. The Technical Working Party for Vegetables (TWV), at its fifty-seventh session¹, considered a proposal for a partial revision of the Test Guidelines for Brussels Sprouts (*Brassica oleracea* L. var. *gemmifera* DC.) on the basis of documents TG/54/7 Rev. and TWV/57/15 "*Partial revision of the Test Guidelines for Brussels Sprouts*" and proposed the following changes (see document TWV/57/26 "*Report*", paragraph 60):
 - (a) Revision of characteristic 21 "Male sterility"
 - (b) Revision of Ad. 21 "Male sterility"
- 3. The proposed new wording is presented below. The proposed changes are presented in highlight and underline (insertion) and strikethrough (deletion) in the Annex to this document (in English only).

Proposed revision of characteristic 21 "Male sterility"

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
21. (+)	VS/ MS	Male sterility	Stérilité mâle	Männliche Sterilität	Androesterilidad		
QL		absent	absente	fehlend	ausente	Attis, Pontus	1
		present	présente	vorhanden	presente	Abacus, Platinus	9

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¹ held in Antalya, Türkiye, from May 1 to 5, 2023

Proposed revision of Ad. 21 "Male sterility"

Ad. 21: Male sterility

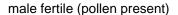
To be tested in a field trial and/or in a DNA marker test².

In the case of a field trial, the type of observation is VS. In the case of a DNA marker test, the type of observation is MS.

Field trial:

Check presence of pollen on stamen: if pollen on stamen is present then male sterility is absent; if pollen on stamen is absent then male sterility is present.







male sterile (pollen absent)

DNA marker test:

If the CMS marker is not present, the variety is expected to have male fertile flowers. In cases where the CMS marker is present, the variety is expected to have male sterile flowers.

In case the DNA marker test result does not confirm the declaration in the TQ, a field trial should be performed to observe whether the variety has male fertile or male sterile flowers due to another mechanism.

[Annex follows]

The description of the method to test male sterility for *Brassica* (CMS marker) is covered by a trade secret. The owner of the trade secret, Syngenta Seeds B.V., has given its consent for the use of the CMS marker solely for the purposes of examination of Distinctness, Uniformity and Stability (DUS) and for the development of variety descriptions by UPOV and authorities of UPOV members. Syngenta Seeds B.V. declares that neither UPOV, nor authorities of UPOV members that use the CMS marker for the above purposes will be held accountable for possible (mis)use of the CMS marker by third parties. Please contact Naktuinbouw, Netherlands, to obtain the method and information on the CMS marker for the purposes mentioned above.

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ANNEX

PROPOSED CHANGES PRESENTED IN HIGHLIGHT (in English only)

Proposed revision of characteristic 21 "Male sterility"

		English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
21. (+)	VG / <u>VS</u> / MS	Male sterility	Stérilité mâle	Männliche Sterilität	Androesterilidad		
QL		absent	absente	fehlend	ausente	Braveheart, Falstaff Attis, Pontus	1
		present	présente	vorhanden	presente	Abacus, Eclipsus Platinus	9

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Proposed revision of Ad. 21 "Male sterility"

Ad. 21: Male sterility

To be tested in a field trial and/or in a DNA marker test³.

In <u>the</u> case of a field trial, <u>the</u> type of observation is VS <u>VS</u>. In <u>the</u> case of a DNA marker test, <u>the</u> type of observation is MS.

Field trial:

Check presence of pollen on stamen: if pollen on stamen is present then male sterility is absent; if pollen on stamen is absent then male sterility is present.







male sterile (pollen absent)

DNA marker test:

If the CMS marker is not present, a field trial should be performed to observe whether the variety is male sterile (on another mechanism) or fertile. the variety is expected to have male fertile flowers. In cases where the CMS marker is present, the variety is expected to have male sterile flowers. All varieties declared fertile are to be tested in a field trial.

In case the DNA marker test result does not confirm the declaration in the TQ, a field trial should be performed to observe whether the variety has male fertile or male sterile flowers due to another mechanism.

[End of Annex and of document]

The description of the method to test male sterility for *Brassica* (CMS marker) is covered by a trade secret. The owner of the trade secret, Syngenta Seeds B.V., has given its consent for the use of the CMS marker solely for the purposes of examination of Distinctness, Uniformity and Stability (DUS) and for the development of variety descriptions by UPOV and authorities of UPOV members. Syngenta Seeds B.V. declares that neither UPOV, nor authorities of UPOV members that use the CMS marker for the above purposes will be held accountable for possible (mis)use of the CMS marker by third parties. Please contact Naktuinbouw, Netherlands, to obtain the method and information on the CMS marker for the purposes mentioned above.