

Testbiotech comment on EFSA's assessment of genetically engineered maize MON 89034 x 1507 x NK603 x DAS-40278-9 and sub-combinations

Subtitle: TESTBIOTECH Background 15 - 02 - 2019

The GMO Panel assessed the four-event stacked maize MON 89034 x 1507 x NK603 x DAS-40278-9, which is derived from crossing four genetically engineered maize events (EFSA, 2019). The maize contains genes conferring resistance to three herbicides and produces six insecticidal proteins.

- MON 89034 expressing Cry1A.105 and Cry2Ab2 insecticidal proteins;
- 1507 expressing the Cry1F insecticidal protein and phosphinothricin acetyl transferase (PAT) protein for tolerance to glufosinate-containing herbicides;
- NK603 expressing the 5-enolpyruvylshikimate-3-phosphate synthase (CP4 EPSPS) and its variant CP4 EPSPS L214P protein
- DAS-40278-9 expressing the aryloxyalkanoate dioxygenase 1 (AAD-1) protein.

Consequently, the stacked maize produces three insecticidal toxins (Cry1A.105, Cry2Ab2 and Cry1F that target lepidoptera insects). Further, the maize is resistant to four groups of complementary herbicides (glyphosate, glufosinate and quizalofop- and 2,4-D-containing herbicides). Even though Implementing Regulation 503/2003 has been in force since 2014, EFSA has not applied it in this case.

Publication year: 2019

File attachments: Attachment

Size



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