

MON 89034 x 1507 x NK603 maize

Genuity® Powercore®

Insect protection and herbicide tolerance

Key Facts

**Bayer Agriculture BV¹ and
Corteva Agriscience LLC²
November 2024**



¹ Hereafter referred to as “Bayer”

² Hereafter referred to as “Corteva”

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What is MON 89034 x 1507 x NK603?

MON 89034 x 1507 x NK603 is a traditionally bred maize, produced by the crossing of three genetically modified (GM) maize lines: MON 89034, 1507 and NK603.

MON 89034 x 1507 x NK603 combines the traits of agronomic interest from the three parental lines, *i.e.* protection against certain lepidopteran insect pests and tolerance to the glufosinate-ammonium and the glyphosate herbicides.

Insect protection

MON 89034 is a second-generation GM insect-protected maize developed by Monsanto Technology LCC³, following the widely planted MON 810⁴. It carries a gene coding for Cry1A.105 protein and a gene coding for Cry2Ab2 which protect the plants from feeding damage caused by the European corn borer (*Ostrinia nubilalis*) and other lepidopteran (moths and butterflies) insect pests.

1507 is a GM maize developed by Corteva Agriscience. It carries a gene coding for the Cry1F protein which provides protection against a broad spectrum of lepidopteran insect pests.

Herbicide tolerance

1507 also expresses the phosphinothricin acetyltransferase (PAT) protein which provides tolerance to the glufosinate-ammonium herbicide. On the other hand, NK603 expresses the 5-enolpyruvyl-shikimate-3-phosphate synthase (EPSPS) enzymes derived from the CP4 strain (CP4 EPSPS) which provides tolerance to the glyphosate herbicide.

Regulatory status of MON 89034 x 1507 x NK603 in the EU.

MON 89034 x 1507 x NK603 is authorised⁵ for

- (1) Foods and food ingredients containing, consisting of, or produced from the GMO;
- (2) Feed containing, consisting of, or produced from the GMO;
- (3) Products containing or consisting of GMO for uses other than those provided for in points (1) and (2), with the exception of cultivation.

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⁴ MON 810 maize, commercialised since 1997, expresses the *Bacillus thuringiensis* Cry1Ab protein which confers protection to certain lepidopteran pests, including the European corn borer (*Ostrinia nubilalis*) and the Mediterranean corn stalk borer (*Sesamia* spp.).

⁵ [Commission Implementing Decision \(EU\) 2024/2628 of 8 October 2024 renewing the authorisation for the placing on the market of products containing, consisting of or produced from genetically modified maize MON 89034 x 1507 x NK603 pursuant to Regulation \(EC\) No 1829/2003 of the European Parliament and of the Council](#). Accessed on 5 November 2024.

Traceability, labelling, unique identifier

Operators handling or using MON 89034 x 1507 x NK603 and derived foods and feeds in the EU are required to be aware of the legal obligations regarding traceability and labelling of these products, laid down in Regulations (EC) No 1829/2003 and 1830/2003.

The unique identifier for MON 89034 x 1507 x NK603 covered by the renewal authorisation⁵ is MON-89034-3 x DAS-01507-1 x MON-00603-6.

Food, feed and environmental safety of MON 89034 x 1507 x NK603

In its 2024 opinion⁶, the EFSA GMO Panel concludes that “*there is no evidence in renewal dossier GMFF-2022-3670 for new hazards, modified exposure or scientific uncertainties that would change the conclusions of the original risk assessment⁷ on maize MON 89034 x 1507 x NK603*”.

Contact point for further information

Since traders may commingle MON 89034 x 1507 x NK603 with other commercial maize, including authorised GM maize, Bayer and Corteva are working together with other members of the plant biotechnology industry within the CropLife Europe and trade associations representing the relevant operators in order to implement a harmonised monitoring methodology.

Operators in the food and feed supply chain and/or any other person wishing to report a potential adverse effect associated with the use of Bayer/Corteva products, can refer to the CropLife Europe website at:

<https://croplifeurope.eu/product-information/>

If required, additional comments or questions relative to MON 89034 x 1507 x NK603 maize can also be addressed to Bayer or Corteva at:

<https://www.cropscience.bayer.com/en/support/contact-us>

CortevaEUBiotech@corteva.com

⁶ [Assessment of genetically modified maize MON 89034 x 1507 x NK603 for renewal authorisation under Regulation \(EC\) No 1829/2003 \(application GMFF-2022-3670\)](#). Accessed on 10 October 2024. Accessed on 5 November 2024

⁷ [Scientific Opinion on an application \(EFSA-GMO-NL-2009-65\) for the placing on the market of insect resistant and herbicide tolerant genetically modified maize MON 89034 x 1507 x NK603 and all sub-combinations of the individual events as present in its segregating progeny, for food and feed uses, import and processing under Regulation \(EC\) No 1829/2003 from Dow AgroSciences and Monsanto](#). Accessed on 5 November 2024.