

This is a provisional English translation of an excerpt from the original full report.

Safety Assessment Report

Maize tolerant to glyphosate herbicide and resistant to coleoptera MON89034 line (sweet corn) (Genetically modified food)

Food Safety Commission of Japan (FSCJ)

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ABSTRACT

FSCJ conducted a safety assessment of “Maize resistant to Lepidoptera MON89034 line (sweet corn)” (hereinafter referred to as “MON89034 line (sweet corn)”), using summary reports submitted from the applicants.

MON89034 line (sweet corn) was produced by conventional cross breeding “Maize resistant to Lepidoptera MON89034 line (dent corn)” and conventional sweet corn.

FSCJ has already completed the safety assessment of “Maize resistant to Lepidoptera MON89034 line (dent corn)”, and has concluded that the line has no concern relevant to human health.

Dent corn and sweet corn belong to the same species, *Zea mays* L., and thus have identical genetic background. Conventional plant breeding has been practiced between both corns. Genes inserted into the genome of “Maize resistant to Lepidoptera MON89034 line (dent corn)” were successfully inserted in to the genome of MON89034 line (sweet corn), the stability of the inserted DNA was demonstrated in the progeny.

Moreover, it was confirmed that MON89034 line (sweet corn) is equivalent in the components to the non-genetically modified counterpart (sweet corn).

Approach to the Safety Assessment of Genetically Modified Plant Hybrids (Decision of Commission dated 29 January 2004) provides guidelines as follows. The hybrids are from the cross within the taxonomic tree (at the taxonomic ranks below the subspecies), but correspond to the modifications of consumption volume, consumable parts, cooking and processing method are different from that of conventional plants. A safety assessment is thus required.

MON89034 line (sweet corn) falls under the above guideline and FSCJ conducted the assessment based on Standards for the Safety Assessment of Genetically Modified Seed Plants (Decision of Commission dated 29 January 2004). Consequently, FSCJ concluded that MON89034 line (sweet corn) has no concern relevant to human health.