

**Safety Assessment of Genetically Modified Food:
Maize line MON89034 resistant to lepidopteran pests**

September 2007
Food Safety Commission

Summary

I. Introduction

The Food Safety Commission received a request from the Ministry of Health, Labour, and Welfare in accordance with the Food Safety Basic Law to provide its opinion on the assessment of the effect of food on health related to an investigation of the safety of foods derived from the genetically modified maize line MON89034 resistant to lepidopteran pests.

II. Outline of the foodstuff to be assessed

Name:	Maize line MON89034 resistant to lepidopteran pests
Properties:	Lepidopteran pest-resistance
Applicant:	Monsanto Japan Limited
Developer:	Monsanto Company (USA)

Maize line MON89034 resistant to lepidopteran pests was produced by introducing the *cryIA.105* gene, which was produced based on the *cryIAb*, *cryIAc*, and *cryIF* genes derived from *Bacillus thuringiensis*, and the *cry2Ab2* gene derived from *B. thuringiensis*. It is maintained that MON89034 can grow without being affected by lepidopteran pests.

III. Results of the assessment of the effect of food on health

Based on the results of an investigation conducted in accordance with the Standards for the Safety Assessment of Genetically Modified Foods (Seed Plants), it was deemed that maize line MON89034 resistant to lepidopteran pests poses no risk to human health.