

**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 Agriculture, Forestry and Fisheries 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 ascertainment of the safety of feedstuffs 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 is a dent maize line into which a *cry1A.105* gene and modified *cry2Ab2* gene, which express a Cry1A.105 protein and a modified Cry2Ab2 protein, respectively, both possessing resistance to lepidopteran pests, was introduced. It is maintained that by expressing the Cry1A.105 protein and the modified Cry2Ab2 protein this genetically modified maize can grow without being affected by lepidopteran pests.

Maize has commonly been used worldwide as a feedstuff for a long period of time. The method of use of genetically modified maize is the same as conventional maize.

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

Based on the Approach to the Safety Assessment of Genetically Modified Feedstuffs and Feed Additives (May 6, 2004 Decision of the Food Safety Commission), it was deemed that there is no need for an assessment of the effect of food on health for maize line MON89034 resistant to lepidopteran pests, and that there are no safety problems with livestock products related to the consumption of said feedstuff by livestock.