

**Safety Assessment of Genetically Modified Food:  
Maize line MIR604 resistant to coleopteran pests**

August 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 MIR604 resistant to coleopteran pests.

II. Outline of the food to be assessed

Name:	Maize line MIR604 resistant to coleopteran pests
Properties:	Coleopteran pest-resistance
Applicant:	Syngenta Seeds KK
Developer:	Syngenta Seeds, Inc., on behalf of Syngenta Crop Production AG and its affiliates (USA)

Maize line MIR604 resistant to coleopteran pests is a dent maize line into which a modified *cry3A* gene that expresses a modified Cry3A protein possessing resistance to coleopteran pests was introduced. It is maintained that by expressing the modified Cry3A protein this genetically modified maize can grow without being affected by coleopteran 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 MIR604 resistant to coleopteran pests, and that there are no safety problems with livestock products related to the consumption of said feedstuff by livestock.