

**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 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 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

Maize line MIR604 resistant to coleopteran pests was produced by introducing a modified *cry3A* gene derived from *Bacillus thuringiensis* ssp. *tenebrionis*. It is maintained that MIR604 can grow without being affected by coleopteran pests.

The host of this line, dent maize, is mainly used as a feed, but is also used to make corn oil, corn starch, and other foods.

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 MIR604 resistant to coleopteran pests poses no risk to human health.