

**Safety Assessment of Genetically Modified Food:  
Maize line 6275 resistant to lepidopteran pests and tolerant to the herbicide glufosinate**

July 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 6275 resistant to lepidopteran pests and tolerant to the herbicide glufosinate.

II. Outline of the foodstuff to be assessed

Name: Maize line 6275 resistant to lepidopteran pests and tolerant to the herbicide glufosinate  
Properties: Lepidopteran pest-resistance and glufosinate-tolerance  
Applicant: Dow Chemical Japan Limited  
Developer: Dow AgroSciences LLC (USA)

Maize line 6275 resistant to lepidopteran pests and tolerant to the herbicide glufosinate is maize into which a modified *cry1F* gene that expresses a modified Cry1F protein possessing resistance to lepidopteran pests, and a modified *bar* gene that expresses a PAT protein possessing tolerance to the herbicide glufosinate were introduced. By expressing the modified Cry1F protein and the PAT protein, this genetically modified maize can grow without being affected by lepidopteran pests and without being affected by the herbicide glufosinate, even if sprayed with that herbicide.

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

Based on the results of an investigation conducted in accordance with 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 6275 resistant to lepidopteran pests and tolerant to the herbicide glufosinate, and that there are no safety problems with livestock products related to the consumption of said feedstuff by livestock.