



This is provisional English translation of an excerpt from the original full report.

Safety Assessment Report

Pectinase produced using JPAN005 strain

(Genetically Modified Foods and Feeds)

Food Safety Commission of Japan (FSCJ)

June 2021

ABSTRACT

FSCJ conducted a safety assessment of an additive, pectinase produced using JPAN005 strain, based on the documents submitted by the applicant.

JPNA005 strain was generated through the introduction of the pectinase gene originated from *A. niger* AP-18 into *Aspergillus niger* BO-1 strain as the host. The pectinase is an endo-type enzyme that catalyzes β -elimination cleaving polygalacturonic acid, the basic skeleton of pectin, and is used in juice production.

Safety of the inserted gene, toxicity and allergenicity of the proteins produced from the inserted gene, and so on were evaluated based on the “Standards for Safety Assessments of Food Additives Produced Using Genetically Modified Microorganisms¹”. As the result, FSCJ considered that there was no change bringing out adverse effects on humans in the recombinant additive compared with the conventional counterpart.

Consequently, FSCJ concluded that the pectinase produced using JPAN005 strain has no concern relevant to human health.

¹ Decision of the Commission dated 25 March 2004.