

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

Safety Assessment Report

Alpha-amylase produced using JPBL013 strain

(Genetically Modified Food)

Food Safety Commission of Japan (FSCJ)

March 2023

ABSTRACT

The FSCJ conducted a safety assessment of “ α -amylase produced using the JPBL013 strain.”

This additive is an α -amylase produced using the JPBL013 strain, which was developed by introducing an α -amylase transgene derived from the *Bacillus amyloliquefaciens* DSM7 strain into the *Bacillus licheniformis* Ca63 strain as a host. This additive is an enzyme that hydrolyzes the α -1, 4 linkage of glucose polymer to form dextrin and oligosaccharide, and is used for starch sugar production.

Referring to the “Standards for Safety Assessments of Food Additives Produced Using Genetically Modified Microorganisms¹”, evaluations were conducted regarding the safety of the inserted gene, and the toxicity and allergenicity of the protein expressed by the inserted gene, which indicated no additional factors that could impair safety compared to conventional additives.

Therefore, it has been concluded that “ α -amylase produced using the JPBL013 strain” is unlikely to pose safety concerns relevant to human health.

¹ Decision of the FSCJ dated March 25, 2004