



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

## Safety Assessment Report

### Lipase produced using LFS strain

(Genetically Modified Foods and Feeds)

Food Safety Commission of Japan (FSCJ)

November 2021

#### ABSTRACT

FSCJ conducted a safety assessment of lipase produced using LFS strain, based on the documents submitted by the applicant.

This additive is a lipase produced using LFS strain generated through the introduction of triacylglycerol lipase gene derived from *Fusarium* strain into *Aspergillus niger* ISO-528 stain as the host.

This enzyme hydrolyzes lipids, and is used for improving the quality of dough in bread-making.

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 Microorganisms<sup>1</sup>”. 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 lipase produced using LFS strain has no concern relevant to human health.

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<sup>1</sup> Decision of the Commission dated 25 March 2004.