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

Safety Assessment Report

Peptidase produced using pSSA strain

(Genetically Modified Food/Feed)

Food Safety Commission of Japan (FSCJ)

May 2014

Abstract

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

This additive is a peptidase produced using pSSA strain generated through the introduction of an insert DNA and an expression plasmid into the host *Streptomyces violaceoruber* 1326 strain in order to enhance the productivity of peptidase. The insert DNA was consisted of promoter genes originated from *Streptomyces avermitilis* ATCC31267 and terminater genes originated from *Streptomyces cinnamoneus* NBRC 12852 and of the structural gene for peptidase originated from *Streptomyces cinnamoneus* TH-2. The expression plasmid also included the thiostreptone resistant (tsr) gene originated from *Streptomyces azureus*.

Gene exchanges are considered to occur naturally among *S. violaceoruber*, *S. cinnamoneus*, *S. avermitilis* and *S. azureus*. These suggest that living cells with a genotypic composition equivalent to that of pSSA strain are likely to exist in nature.

This additive has been produced using a microorganism corresponding to the case "where a living cell which has genotypic compositon equivalent to the relevant recombinant exsist in nature", specified in Chapter 1 General Provisions, Section 3 "Scope and Objective" of "Standards for the Safety Assessment of Food Additives Produced Using Genetically Modified Microorganisms (Decision of the Commission Dated 25 March 2004)". This additive is not categorized into the object of the above-mentioned Standards. FSCJ, thus, judged that safety assessment is not necessary for this additive.