

Food enzyme endo-1,4- β -xylanase

1 General information

Submitter Shin Nihon Chemical Co., Ltd
Commission ID [EFSA-Q-2023-00297](#)

2 Source

Organism [Trichoderma citrinoviride](#)
GMM No
Strain X31

3 EFSA Applications

- **Enzyme protein** [Endo-1,4-beta-xylanase](#), **cDNA sequence** Not available, **Mass** Not available, **Chemical parameters** /, **Question number** EFSA-Q-2023-00297, **EFSA Status** Finished, **Safety evaluation** [Safety evaluation of the food enzyme endo-1,4- \$\beta\$ -xylanase from the non-genetically modified Trichoderma citrinoviride strain X31](#)

4 Manufacturing

Production Fermentation

5 Industrial activity

Intended food use

- Bakery and cereal based products
- Beer and cereal based beverages
- Cereal based distilled alcoholic beverages
- Fruit and vegetable processing



Sugar processing



Exposure level Chronic exposure to the food enzyme–TOS was calculated using the FEIM webtool by combining the maximum recommended use level with individual consumption data (EFSA CEP Panel, 2021). The estimation involved selection of relevant food categories and application of technical conversion factors (EFSA CEP Panel, 2023).

Intended use level 56.0 mg TOS/kg RM

Usage details The food enzyme is intended to be used in nine food manufacturing processes : Processing of cereals and other grains (Production of starch and gluten fractions, Production of baked products, Production of cereal-based products other than baked, Production of brewed products, Production of distilled alcohol), Processing of fruits and vegetables (Production of fruit and vegetable products other than juices, Production of wine and wine vinegar), Processing of plant-and fungal-derived products (Production of plant extracts), Processing of sugars (Production of oligosaccharides (xylooligosaccharides)