

Food enzyme glucan 1,4- α -glucosidase

1 General information

Submitter Novozymes A/S

Commission ID [EFSA-Q-2024-00221](#)

2 Source

Organism [Aspergillus niger](#)

GMM Yes

Strain NZYM-DM

3 EFSA Applications

- **Enzyme protein** [Glucan 1,4-alpha-glucosidase](#), **cDNA sequence** Not available, **Mass** Not available, **Chemical parameters** /, **Question number** EFSA-Q-2024-00221, **EFSA Status** Finished, **Safety evaluation** [Safety evaluation of the food enzyme glucan 1,4- \$\alpha\$ -glucosidase from the genetically modified Aspergillus niger strain NZYM-DM](#)

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



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 702.0 mg TOS/kg RM

Usage details The food enzyme is intended to be used in five food manufacturing processes: Processing of cereals and other grains (Production of baked products, Production of cereal-based products other than baked, Production of brewed products, Production of glucose syrups and other starch hydrolysates, Production of distilled alcohol)