



Safety evaluation of the food enzyme aspergillopepsin I from the genetically modified *Trichoderma reesei* strain DP-Nzq40

1 Report

Status Finished

EFSA question number [EFSA-Q-2015-00371](#)

Adopted 09-12-2025

Previous authorisations The applicant has submitted a dossier in support of the application for authorisation of the food enzyme aspergillopepsin I from a genetically modified strain of *Trichoderma reesei* (strain DP-Nzq40). Additional information was requested from the applicant during the assessment process on 17 January 2023, and 23 January 2024 and received on 20 October 2023 and 22 October 2024.

2 Production method

Manufacturing The production strain is grown as a pure culture using a typical industrial medium in a submerged, batch or fed-batch fermentation system with conventional process controls in place

Formulation Unknown

Downstream processing After completion of the fermentation, the solid biomass is removed from the fermentation broth by filtration. The filtrate containing the enzyme is then further purified and concentrated, including an ultrafiltration step in which enzyme protein is retained, while most of the low molecular mass material passes the filtration membrane and is discarded

Average TOS (w/w) 35.6 %

Average activity/TOS 22.9 SAPU/mg TOS

3 EFSA tested impurities

Production strain and recombinant DNA The absence of viable cells of the production strain in the food enzyme was demonstrated. The absence of recombinant DNA in the food enzyme was demonstrated.



Allergenicity When used for the production of distilled alcohols, the Panel considered that a risk of allergic reactions upon dietary exposure can be excluded.

Antimicrobial resistance No antimicrobial activity was detected in any of the tested batches.

Antifoam agents /

Other The presence of T-2 toxin was examined in all food enzyme batches and was below the limit of quantification (LoQ) of the applied method.

Pathogens

Microbiological quality indicators

Metals

Comments LoD: Pb = 0.01 mg/kg. LoD: T2 toxin = 10 µg/kg.