



NATUZYM® A Concentrate

Product Data Sheet

Date of issue: 29 July 2022

Glucoamylase for starch hydrolysis in apple and pear juice

Description: NATUZYM® A Concentrate is a glucoamylase obtained from a selected strain of *Aspergillus niger*, hydrolysing α -1,4-linked alpha-D-glucose residues and, more slowly, α -1,6-glucose links in amylose and amylopectin. NATUZYM® A Concentrate also contains an acid amylase able to work in synergy with glucoamylase, resulting in a faster starch hydrolysis, improved filtration, clarification and concentration of apple or pear juice.

Properties: Enzyme: glucoamylase IUBMB: 3.2.1.3
Activity: >500 AMG units/g Form: liquid
Density: 1.05–1.20 g/ml Colour: brown

Colour and appearance may vary from batch to batch. Colour intensity or turbidity is not an indication of enzyme activity.

Application: NATUZYM® A Concentrate is a glucoamylase that has been specially developed for starch hydrolysis in apple and pear juices.

Conditions of use: NATUZYM® A Concentrate is added after pasteurisation and cooling of the juice, into the depectinisation tank, together with the pectinase.

Application	Dosage	Recommendation
Apple or pear juice depectinisation	1-2 g/hl	1-2 hours at 50–55 °C
Pre-concentrate	4- 6 g/hl	

GM Status: The product and its constituent enzymes are not genetically modified. Enzyme proteins are produced by fermentation of classical microorganisms, which are removed and not present in the final product. Only agricultural raw materials of non-genetically modified (non-GM) origin are used for the fermentation process and in the final formulation.

Composition: NATUZYM® A Concentrate is stabilised with glycerol and glucose and preserved with potassium sorbate (E202) and sodium benzoate (E211).

Packaging and storage: NATUZYM® A Concentrate is available in 25 kg polyethylene drums or IBCs. The product is best stored in the original and unopened packaging under refrigerated conditions (4–8 °C) in order to retain maximum activity during storage. Under optimum conditions shelf life is 24 months.

Safety and caution: Enzyme products need to be handled with care. Please consult the separately available Safety Data Sheet for further information.



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Compliance and legal: Our enzyme products are used as processing aids in the food manufacturing process and are thus free from any labelling provisions in the European Union. The product does not fall within the scope of EU regulations (EC) 1829/2003 and (EC) 1830/2003 on genetically modified food and feed.

The product is manufactured to comply with recommended purity specifications given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA), and conforms with the recommended specifications of the Food Chemical Codex for food enzymes.

Purity criteria:	Total plate count	< 50 000 CFU per g
	Yeasts & Moulds	< 30 CFU per g
	Total Coliforms	< 30 CFU per g
	Salmonella	absent in 25 g
	Escherichia coli	absent in 25 g
	Heavy Metals (as Pb)	< 30 ppm
	Lead	< 5 ppm
	Arsenic	< 3 ppm
	Cadmium	< 0.5 ppm
	Mercury	< 0.5 ppm
Special diet information:	Kosher:	Certified
	Halal:	Certified
	Vegan/Vegetarian:	enzyme product or any constituents are not of animal origin

Certification: WeissBioTech GmbH has a certified quality management system according to ISO 9001:2015 and a certified Food Safety Management System according to FSSC 22000 incl. HACCP, which are reviewed in regular audits.

Made by WeissBioTech GmbH, Germany

To the best of our knowledge, the information contained herein is accurate and complete. However, nothing herein contained shall be construed to imply any warranty or guarantee.

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