



NATUZYM® FLOW UF

Product Data Sheet

Date of issue: 23 August 2022

Enzymatic complex for fruit juice ultra-filtration

Description: NATUZYM® FLOW UF is a concentrated enzymatic complex from selected strains of various micro-organisms. NATUZYM® FLOW UF contains a very broad range of enzyme activities such as pectin lyase, hemicellulase, rhamno-galacturonase and endo-glucanase. These enzymatic activities postpone the decrease of flux rate along the filtration cycle. The fruit juice is depectinised and cell wall colloids are broken down as well. The treated juices are easy to ultra-filter and more stable during storage.

Properties:

Enzyme: pectinase	IUBMB: 4.2.2.10
Activity: >450 PL units/g	Form: liquid
Density: 1.10–1.25 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® FLOW UF is an enzymatic complex that has been specially developed for fruit juice ultra-filtration.

Conditions of use: NATUZYM® FLOW UF is added at the beginning of depectinisation or directly into the ultra-filtration tank.

Application	Dosage
In depectinisation tank	20-30 g/m ³
In ultra-filtration tank	100 ml per m ³ every 8 hours

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® FLOW UF is stabilised with glycerol.

Packaging and storage: NATUZYM® FLOW UF 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 storage 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

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