



# DELTABREW® FAA

## Product Data Sheet

Date of issue: 19 December 2022

### Fungal alpha-amylase for starch degradation in brewing

**Description:** DELTABREW® FAA is a fungal amylase obtained from *Aspergillus oryzae* used for increased starch breakdown and higher alcohol yield. DELTABREW® FAA hydrolyses the 1,4- $\alpha$ -glycosidic linkages in amylose and amylopectin to small dextrins and maltose. 1,6-alpha limit dextrins will remain in the beer. The product can be added at the start of a fermentation to increase the fermentability of the wort.

**Properties:** Enzyme: alpha-amylase IUBMB: 3.2.1.1  
Activity: >3000 FAU/g Form: liquid  
Density: 1.10–1.20 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:** DELTABREW® FAA is used to help hydrolyse starch to improve fermentation yields in alcohol or beer production.

**Conditions of use:** DELTABREW® FAA has shown to best perform when used under the following conditions:

Application	Dosage	Recommendation
Start of fermentation	0.5 - 3 g per hl of beer	Apply at pH 4.2 - 6.0 and 8 - 12°C

**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:** DELTABREW® FAA is stabilised with glycerol and glucose and preserved with potassium sorbate and sodium benzoate.

**Packaging and storage:** DELTABREW® FAA 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.



# DELTABREW® FAA

## Product Data Sheet

Date of issue: 19 December 2022

**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.

<b>Purity criteria:</b>	Total plate count	< 50 000 CFU per g	
	Yeasts & Moulds	< 1 000 CFU per g	
	Total Coliforms	< 30 CFU per g	
	Salmonella	absent in 25 g	
	Escherichia coli	absent in 25 g	
	<b>Heavy Metals (as Pb)</b>		
	Lead	< 30 ppm	
	Arsenic	< 5 ppm	
	Cadmium	< 3 ppm	
	Mercury	< 0.5 ppm	
	<b>Special diet information:</b>	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.

NATUZYM®, DELTAZYM®, and DELTABREW® are registered trademarks of WeissBioTech GmbH. Our technical advice on the uses of our products is given without obligation. WeissBioTech is not responsible for the application and processing of the products by the customer or any third party. The customer is solely liable to comply with the applicable laws and regulations, and intellectual property rights of third parties. This document contains product specifications that may be altered without prior notice