Weiss-Bio-Tech



Optimum conditions: pH 6.0-6.5 / 55-75°C

DELTABREW® BAA

Product Data Sheet

Date of issue: 31 January 2023

Bacterial alpha-amylase for brewing

Description:	DELTABREW [®] BAA is a bacterial alpha-amylase obtained from a selected strain of <i>Bacillus subtilis</i> . This enzyme is an endo- α -amylase hydrolysing starch α -1,4-glucosidic linkages. The enzyme reduces the viscosity of starch slurry and releases soluble dextrins as well as small amounts of maltose and glucose.			
Properties:	Enzyme: alpha-amylase Activity: >40.000 RA unit Density: 1.10-1.25 g/ml Colour and appearance ma is not an indication of enzymetric	Colour: k y vary from batch t	iquid prown	colour intensity or turbidity
Application:	DELTABREW [®] BAA is added to the mashing process. The α -amylase leads to a yield increase and significantly reduces the viscosity, resulting in easier wort production. The product gives flexibility in using various cereal grain adjuncts such as barley, wheat and maize.			
Conditions of use:	DELTABREW [®] BAA has shown to best perform when used under the following conditions:			
	Application	Dosage		Recommendation
	Starch hydrolysis in the mash tun	100–300 gram of malt or grist	per ton	Application: pH 6.0-7.0 temperature 45-80°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[®] BAA is stabilised with sodium chloride and glycerol.

Packaging and Storage: DELTABREW[®] BAA 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 manufacturin 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 ar (EC) 1830/2003 on genetically modified food and feed. The product is manufactured to comply with recommended purity specification given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA), ar conforms with the recommended specifications of the Food Chemical Codex for food enzymes.			
Purity criteria:	Total plate count Yeasts & Moulds Total Coliforms Salmonella Escherichia coli	< 50 000 CFU per g < 1 000 CFU per g < 30 CFU per g absent in 25 g absent in 25 g		
	Heavy Metals (as Pb) Lead Arsenic Cadmium Mercury	< 30 mg/kg < 5 ppm < 3 ppm < 0.5 ppm < 0.5 ppm		
Special diet information:	Kosher: Halal: Vegan/Vegetarian:	certified certified 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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