



# DELTABREW® BG

## Product Data Sheet

Date of issue: 8 December 2022

### Beta-glucanase for beer production

**Description:** DELTABREW® BG is an enzyme preparation of  $\beta$ -glucanases produced from a selected strain of *Trichoderma sp.* that finds application in the beer industry. The  $\beta$ -glucanases in DELTABREW® BG hydrolyse  $\beta$ -1,3/1,4-glucans present in the wort or final beer when using high barley content or when encountering seasonal effects in malt quality. DELTABREW® BG has been specifically developed for viscosity reduction to improve wort or beer filtration.

**Properties:**

Enzyme: $\beta$ -glucanase	IUBMB: 3.2.1.6
Activity: >18000 BG 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:** DELTABREW® BG product is used for brewing with barley or to adjust for seasonal effects in malt. Can be applied during fermentation to hydrolyse the glucans in the beer and improve beer filtration.

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

Application	Dosage	Recommendation
Hydrolysis of beta-glucans before wort or beer filtration	0.5 - 1 g / hl of beer	Used during fermentation to improve beer filtration

**GM Status:** The product and its constituent enzymes are not genetically modified. Enzyme proteins are produced by fermentation of self-cloned 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® BG is stabilised with glycerol and preserved with potassium sorbate (E202) and sodium benzoate (E211).

**Packaging and storage:** DELTABREW® BG 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 optimal 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.

<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>	< 30 ppm
	Lead	< 5 ppm
	Arsenic	< 3 ppm
	Cadmium	< 0.5 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

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