



# DELTAZYM® VR SX

## Product Data Sheet

Date of issue: 5 September 2022

### Xylanase preparation for viscosity reduction in cereal processing

**Description:** DELTAZYM® VR SX is a xylanase preparation obtained from a controlled fermentation of a non-toxic, genetically modified strain of *Trichoderma reesei*. DELTAZYM® VR SX hydrolyses endo- $\beta$ -1,4-D-xylan linkages in wheat and other cereals. The product has been specially developed for a very fast viscosity reduction during pre-liquefaction of slurry from wheat or other cereals containing xylans. It is used for ethanol processing with a high efficiency at low pH and in a broad temperature range.

**Properties:** Enzyme: xylanase IUBMB: 3.2.1.8  
Activity: >2500 Xyl 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:** DELTAZYM® VR SX hydrolyses the endo- $\beta$ -1,4-D-xylan linkages found in cereals such as wheat or barley.

**Conditions of use:** DELTAZYM® VR SX has shown to best perform when used under the following conditions:

Application	Dosage	Recommendation
Cereal processing for ethanol production	120 - 150 g per ton of cereals	Application conditions: pH 4.0 - 7.0, up to 95 °C Optimum conditions: pH 4.5 - 6.5 65 - 90 °C

**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:** DELTAZYM® VR SX is stabilised with sodium chloride and glucose and preserved with small amounts of potassium sorbate and sodium benzoate.

**Packaging and storage:** DELTAZYM® VR SX is available in 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.

**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
	Heavy Metals (as Pb)	< 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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