



DELTAZYM® PLA

Product Data Sheet

Date of issue: 29 July 2022

Pullulanase for starch processing

Description: DELTAZYM® PLA is a pullulanase obtained by fermentation from a classical strain

of *Bacillus licheniformis*. It hydrolyses alpha-1,6-glucosidic linkages in amylopectin, releasing linear alpha-1,4-dextrins. The enzyme works in synergy with a glucoamylase, enhancing the production of glucose in starch processing.

Properties: Enzyme: pullulanase IUBMB: 3.2.1.41

Activity: 2000 PLA units 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® PLA is a pullulanase hydrolysing alpha-1,6-glucosidic linkages in

amylopectin. The product has been specially developed to work in synergy with

glucoamylase or β -amylase to produce high dextrose or maltose syrups.

Conditions of use: DELTAZYM® PLA has shown to best perform when used under the following

conditions:

Application	Dosage	Recommendation
Maltose/glucose syrup	Maltose/glucose syrup 200 - 500 g per ton of starch (on dry basis)	Optimum conditions of
		use:
		pH 4.0-5.5 and 55-65°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: DELTAZYM® PLA is stabilised with sodium chloride and preserved with small

amounts of potassium sorbate.

Packaging and Storage: DELTAZYM $^{\circ}$ PLA is available in 25 kg polyethylene drums. 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 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 < 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 mg/kg</td>

 Lead
 < 5 ppm</td>

 Arsenic
 < 3 ppm</td>

 Cadmium
 < 0.5 ppm</td>

 Mercury
 < 0.5 ppm</td>

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

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.

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