



NATUZYM® CW

Product Data Sheet

Date of issue: 24 September 2022

Pectinase for citrus processing

Description: NATUZYM® CW is a pectinase produced from a selected strain of *Aspergillus niger*. NATUZYM® CW has been developed for citrus processing. The product contains different pectinase activities such as pectin lyase and polygalacturonase. It can be used in different applications such as the reduction of juice viscosity before concentration, pulp wash and core wash, pre-peeling, or albedo removal of fruit segments.

Properties: Enzyme: pectin lyase IUBMB: 4.2.2.10
Activity: >300 PL 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: NATUZYM® CW has been specially developed for citrus by-product valorisation.

Conditions of use: NATUZYM® CW performs best under below conditions.

| Application | Dosage | Recommendation |
|-------------------------------------|--|--|
| Juice viscosity reduction | 1-2 g/hl | 15 min at 40-50 °C |
| Pulp and core wash | 1-2 g/hl | Added in the counter current washing line or just before concentration for 30 min at ambient temperature |
| Citrus pre-peeling (albedo removal) | 0.5-1% solution in citric buffer, pH 4-5 | After physical peeling in solution for 1 h at 45 °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: NATUZYM® CW is stabilised with glycerol.

Packaging and storage: NATUZYM® CW 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 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 |
| | Total Coliforms | < 30 CFU per g |
| | Yeast and moulds | < 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 |
| 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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