Weiss-Bio-Tech



NATUZYM® CCL Ultra

Product Data Sheet

Date of issue: 15 September 2022

Pectinase for lemon juice clarification

Description: NATUZYM[®] CCL Ultra is a concentrated acid stable pectinase from a selected strain of *Aspergillus niger*. NATUZYM[®] CCL Ultra has been developed for lemon or lime juice depectinisation and clarification. The product contains different pectinase activities, mainly pectin lyase, which hydrolyse the pectin colloidal complex from albedo in lemon or lime juice, decrease the viscosity, and seed up the clarification and concentration of the juice.

Properties:Enzyme: pectinaseIUBMB: 4.2.2.10Activity:>1000 PL units/gForm: liquidDensity:1.10-1.25 g/mlColour: brown

Colour and appearance may vary from batch to batch. Colour intensity or turbidity is not an indication of enzyme activity.

Application: NATUZYM[®] CCL Ultra is an acid stable pectinase that has been specially developed for lemon juice depectinisation and clarification.

Conditions of use: NATUZYM[®] CCL Ultra is a pectinase working at low pH in citrus juices. It is added into the clarification tank after pasteurisation and cooling of the juice.

Application	Dosage	Recommendation
Lemon juice	6-8 g/hl	1–2 h at 30 °C
	7–12 g/hl	12 hours at room T°

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® CCL Ultra is stabilised with glycerol.

Packaging and storage: NATUZYM[®] CCL Ultra 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. When stored under optimal 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 specification given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA), an 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 < 30 CFU per g < 30 CFU per g absent in 25 g absent in 25 g	
	Heavy Metals (as Pb) Lead Arsenic Cadmium Mercury	< 30 ppm < 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

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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