Product Data Sheet



1 of 2

Valid from 2012-02-14

Novozym® 33095

In this product the key enzyme activity is provided by

pectin lyase catalyzing eliminative cleavage of (1,4)-alpha-D-galacturonan methyl ester giving oligosaccharides with 4-deoxy-6-O-methyl-alpha-D-galact-4-enuronosyl groups at their non-reducing ends

PRODUCT CHARACTERISTICS/PROPERTIES

Declared enzyme	Pectin lyase	
Declared activity	10000 PECTU/ml	
Other activities	Polygalacturonase	
Color	Brown	
Physical form	Liquid	
Approximate density (g/ml)	1.16	
Odor	Slight fermentation odor	
Solubility	Active component is readily soluble in water at all concentrations that occur in normal usage. Standardisation components can cause turbidity in colution	
	solution	

Color can vary from batch to batch. Color intensity is not an indication of enzyme activity.

PRODUCT SPECIFICATION

	Lower Limit	Upper Limit	Unit
Pectinase unit PECTU	10000		/ml
Total viable count		50000	/g
Coliform bacteria		30	/g
E.coli	Not Detected		/25 g
Salmonella	Not Detected		/25 g
Heavy metals		Max 30	mg/kg
Lead		Max 5	mg/kg
Arsenic		Max 3	mg/kg
Cadmium		Max 0.5	mg/kg
Mercury		Max 0.5	mg/kg

COMPOSITION

Ingredients	Appr. % (w/w)
Glycerol, CAS no. 56-81-5	49
Water, CAS no. 7732-18-5	42
Pectin lyase, CAS no. 9033-35-6*	5
Potassium chloride, CAS no. 7447-40-7	2
Polygalacturonase, CAS no. 9032-75-1*	2

^{*}Defined as enzyme conc. (dry matter basis)

No preservatives added

ALLERGEN

Allergen	Substance contained ¹	Allergen	Substance contained ¹
Beef Carrot Celery Cereals containing gluten² Chicken meat Cocoa Coriander Corn/maize Crustaceans Egg Fish Glutamate	no no no no no no no no no no no no	Lactose Legumes Lupin Milk Molluscs Mustard Nuts³ Peanuts Pork Sesame Soy Sulphur dioxide/sulphites, more than 10 mg per kg	no no no no no no no no no no no no
		or l	

¹Definition of substances according to LeDa/ALBA and EU Directives 2000/13/EC and 2007/68/EC, as amended

²i.e.wheat, rye, barley, oats, spelt, kamut

³i.e. almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistacchio nut, macadamia nut and Queensland nut

PRODUCTION ORGANISM

Production organism

Aspergillus aculeatus Aspergillus niger

Produced by fermentation of micro organisms. The enzyme protein is separated and purified from the production organisms.

STORAGE CONDITION

Recommended storage: 0-10 °C (32-50 °F)

Packaging must be kept intact, dry, and away from sunlight. Please follow the recommendations and use the product before the best before date to avoid the need for a higher dosage.

Best before: You will find the best before date in the certificate of analysis or on the product label.

The product gives optimal performance when stored as recommended and used prior to the best-before date.

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SAFETY AND HANDLING PRECAUTIONS

Enzymes are proteins. Inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes, and mucous membranes upon prolonged contact. See the MSDS or Safety Manual for further information regarding safe handling of the product and spills.

COMPLIANCE

The product complies with the recommended purity specifications for food-grade enzymes given by the Joint FAO/WHO Expert Committee on Food Additives (JECFA) and the Food Chemical Codex (FCC), and with relevant Chinese food safety and product standards for food-grade enzymes.

Kosher and Halal certificates are available from the Customer Center or sales representative.

If used as processing aid in the production of food the final product may be classified as "organic" by relevant authorised associations.

CERTIFICATIONS

Novozymes is a signatory to United Nations Global Compact, United Nations Convention on Biological Diversity and report on our sustainability performance through Global Reporting Initiative (GRI). See all our commitments under sustainability on www.novozymes.com.





FOOD SAFETY

Novozymes has carried out a hazard analysis and prepared an HACCP plan describing the critical control points (CCPs). The HACCP plan is supported by a comprehensive prerequisite program implemented in Novozymes' GMP practices.

The product is produced according to Novozymes' HACCP plan, GMP practices, and additional requirements controlled by Novozymes' Quality Management System.

The product complies with FAO/WHO JECFA- and FCC-recommended purity requirements regarding mycotoxins.

PACKAGING

The product is available in different types of packaging. Please contact the sales representative for more information.

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Tel. +45 4446 0000 Fax +45 4446 9999 For more information, or for more office addresses, visit www.novozymes.com