

Kerry Food Ingredients (Cork) Limited Kilnagleary, Carrigaline, Cork Ireland

> Phone: +353214376400 Fax: +353214376480

PRODUCT SPECIFICATION

PRODUCT DETAILS

Product Name Kerry Code Legacy Bioglucanase TX (25Kg) 20104506 5B06518

Product Description

Bioglucanase TX is a betaglucanase enzyme system derived from Trichoderma reesei which contains hemicellulase side activities. This product is made from a natural raw material and as such may be subject to some batch to batch colour and/or odour variation, but these variations are not an indicator of enzyme activity and do not impact on product performance.

INGREDIENT LISTING

Water, Enzyme, Glycerol, Sucrose, Sodium Chloride, Sodium Benzoate, Potassium Sorbate

USAGE / APPLICATION INFORMATION

Bioglucanase TX can be used in a wide range of applications which involve hydrolysis of non starch polysaccharides and degradation of plant cell walls. In particular Bioglucanase TX is effective in the brewing and cereal processing industries.

Brewing

Bioglucanase TX is used when brewing with poor malt or a high inclusion of barley as adjunct. The treatment has a significant effect on mash filtration due to its action of beta glucan and other non starch polysaccharides. Use of Bioglucanase TX results in increased throughput, improved extract yield, and elimination of beer haze or filtration problems. Recommended dose rate is 0.01-0.025% on grist.

Benefits

• Allows new, more cost effective, local raw material sources to be used, but maintains final product integrity

• Increases extract yield in standard, high gravity and high adjunct brewing processes • Longer filtration runs

• Reduces total cost (optimum cost per hl of beer)

•Reduces carbon footprint

KEY PARAMETERS			
Test	Min	Мах	Units
Betaglucanase (FBG)	713	863	u/ml
MICROBIOLOGICAL D	ATA		
Total Viable Count		<50000 cfu/ml	
Coliforms		<30 cfu/ml	
		AL (/05 L	
E. coli		Absent/25 ml	



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ALLERGEN DATA		
Allergen	Present Yes/No	
Beef and products thereof	No	
Carrot and products thereof	No	
Celery and products thereof	No	
Cereals containing gluten(1)	No	
Chicken meat and products thereof	No	
Cocoa and products thereof	No	
Coriander and products thereof	No	
Corn/maize and products thereof	No	
Crustaceans and products thereof	No	
Egg and products thereof	No	
Fish and products thereof	No	
Glutamate and products thereof	No	
Milk and products thereof (including lactose)	No	
Mustard and products thereof	No	
Nuts (other than peanuts) and products thereof(2)	No	
Molluscs and products thereof	No	
Legumes and products thereof	No	
Lupin and products thereof	No	
Peanuts and products thereof	No	
Pork and products thereof	No	
Sesame Seeds and products thereof	No	
Soybeans and products thereof(3)	No	
Sulphur Dioxide/Sulphites > 10ppm	No	
Wheat and products thereof(4)	No	
	•	

Note: All reasonable precautions that could be expected of a responsible manufacturer have been taken to prevent cross contamination in the raw materials used and in the manufacturing process. Product has been produced in a plant that handles cereals containing gluten (primary wheat flour).

Definitions conform to Regulation (EU) 1169/2011 as amended, US Food Allergen Labelling and Consumer Protection Act (FALCP) and ALBA-List.

(1) i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strain

(2) Nut allergens: Almond Prunus dulcis (Rosaceae) Beech nut Fagus spp. (Fagaceae), Brazil nut Bertholletia excelsa (Lecythidaceae), Butternut Juglans cinerea (Juglandaceae), Cashew Anacardium occidentale (Anacardiaceae), Chesnut (Chinese, American, European, Seguin) Castanea spp.(Fagaceae), Chinquapin Castanea pumila (Fagaceae), Coconut Cosos nucifera L. (Arecaceae (alt. Palmae)), Fibert/Hazelnut Corylus spp. (Betulaceae), Ginko nut Ginkgo biloba L.(Ginkgoaceae), Hickory nut Carya spp.(Juglandaceae), Lichee nut Litchi chinensis Sonn. (Sapindaceae), Macadamia nut/Bush nut Macadamia spp.(Proteaceae), Pecan Carya illinoiesis (Juglandaceae), Pine nut/Pinon nut Pinus spp. (Pineaceae), Pili nut Canarium ovatum (Burseraceae), Pistachio Pistacia vera L. (Anacardiaceae), Sheanut Vitellaria paradoxa (Sapotaceae), Walnut (English, Persian, Black, Japanase, California), Heartnut, Juglans spp.(Juglandaceae)

(3) Enzyme fraction is extracted from Soya Hulls; however Soya Protein cannot be detected in final product at a detection limit of 1 ppm.

(4)i.e. common wheat, durum wheat, club wheat, spelt, semolina, Einkorn, emmer, kamut and triticale



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Yes Yes Certified / Not Certified Certified Certified	Comment Suitable	
Certified / Not Certified Certified	Suitable	
Certified	Suitable	
Certified	0.11.1.1	
	Suitable	
Typical Value	Unit	
941	kJ/100 g	
225	kCal/100 g	
42	g/100 g	
0	g/100 g	
14	g/100 g	
42	g/100 g	
2	g/100 g	
	941 225 42 0 14 42	941 kJ/100 g 225 kCal/100 g 42 g/100 g 0 g/100 g 14 g/100 g 42 g/100 g

Values quoted are typical and should be used for guidance purposes only.

PROCESS SUMMARY

Kerry has implemented and maintains food hygiene standards and HACCP Plans in line with the requirements of food legislation.

The Carrigaline, Co Cork site is certified against the requirements of FSSC22000 and ISO14001.

RECOMMENDED SHELF-LIFE & STORAGE

Transport & Storage Conditions:	Temperature controlled transport is not required, but prolonged storage should be at 18°C or below. When stored at 18°C or below, product will maintain at least 95% activity for a minimum of 12 months. After this time period reassay is advisable.
Shelf life (original package):	365 days (12 months)

PACKAGING

Pack Size (Net)	25 Kg
Pack Type Inner	Plastic drums
Pack Type Outer	Plastic drums

HEALTH & SAFETY DATA

Liquid enzyme products may cause skin or eye irritation and inhalation of aerosol can result in sensitisation of susceptible individuals. Standard handling procedures should be followed to prevent direct contact with the product or inhalation of aerosol.

A separate Safety Data Sheet (SDS) is available on request.



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LEGISLATION & WARRANTY STATEMENT

We warrant that the product is manufactured in accordance with the specification and is manufactured and packaged in compliance with all EU food and food safety legislation applicable to products of this nature at time of manufacture and sale by us. We warrant that the product also complies with the food purity specifications for food-grade enzymes recommended by the JECFA and recommended in the Food Chemical Codex.

We make no further warranty in relation to the product or as to the suitability of the product for any specific purpose or application. The user should satisfy itself as to the suitability of the product as an ingredient in a specific application or for any use whatsoever. The information supplied in this specification sheet is in accordance with our product formulation, is also based on manufacturing plant data and on data provided by our raw material suppliers and is accurate to the best of our knowledge at the date of issue of this specification. Local national regulations should also be consulted by user in relation any specific application and in relation to appropriate ingredient declarations as legislation may vary from country to country.

CONFIDENTIALITY

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