

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

> Phone: +353214376400 Fax: +353214376480

PRODUCT SPECIFICATION

PRODUCT DETAILS

Product Name Kerry Code Legacy Bioprotease NPL (25Kg) 20583891

Product Description

Bioprotease NPL is a proteolytic enzyme derived from a selected strain of Bacillus spp.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, Glycerin, Enzyme, Sodium Benzoate, Potassium Sorbate

USAGE / APPLICATION INFORMATION

Bioprotease NPL is used in the distilling industry when the grist contains a high level of adjunct or poor quality malt. Bioprotease NPL ensures the production of adequate levels of free alpha amino nitrogen in the wort.

Benefits

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

· Increases extract yield

Reduces total cost

• Reduces carbon footprint

Dose rates lie in the region of 0.015-0.04% on malts and 0.05-0.06% on barley.

KEY PARAMETERS					
Test	Min	Max	Units		
Neutral Protease	70,000	91,000	u/ml		
MICROBIOLOGICAL	DATA				
Total Viable Count	<	50000 cfu/g			
Coliforms	<:	30 cfu/g			
E. coli	A	Absent/25 g			
Salmonella	A	Absent/25 g			



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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	No	
Sulphur Dioxide/Sulphites > 10ppm	No	
Wheat and products thereof(3)	No	
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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)i.e. common wheat, durum wheat, club wheat, spelt, semolina, Einkorn, emmer, kamut and triticale



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	No = Unsuitable	ment/Certification Status
Vegetarian (Ova-lacto)	Yes	
	Certified / Not Certified	Comment
Halal	Not Certified	Suitable
Kosher	Not Certified	Suitable
NUTRITION INFORMATION		
Nutrient	Typical Valu	le Unit
Energy	381	kJ/100 g
Energy	91	kCal/100 g
Total Carbohydrates	1	g/100 g
Total Fat	0	g/100 g
Protein	4	g/100 g
Moisture	50	g/100 g
Ash	2	g/100 g
Data Source		
Values quoted are typical and should be	used for guidance purposes onl	у.

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:	When stored at <10°c the shelf-life is 24 months, at 18°c the shelf-life is 12 months & at 30°c the shelf-life is 6 months
Shelf life (original package):	365 days (12 months)

PACKAGING

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

HEALTH & SAFETY DATA

Powder enzyme products contain microgranular enzymes which significantly reduces the risk of inhalation and sensitisation of susceptible individuals. Enzymes may cause irritation to eye or skin. Standard handling procedures should be followed to prevent direct contact with the product. 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

This document and the information contained within it remains the property of Kerry Group and must not be disclosed to any third party without prior written permission of the company.

Kerry Code Spec Version: Spec Status: