Product Data Sheet



1 of 2

Valid from 2012-02-14

Amylase™ AG XXL

In this product the key enzyme activity is provided by

glucoamylase that hydrolyzes (1,4)- and (1,6)-alpha-D-glucosidic linkages at the non-reducing ends of polysaccharides

solution.

PRODUCT CHARACTERISTICS/PROPERTIES

Declared enzyme	Glucoamylase (glucan 1,4-alpha-glucosidase)
Declared activity	460 AGU/mi
Color	Brown
Physical form	Liquid
Approximate density (g/ml)	1.15
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

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

PRODUCT SPECIFICATION

	Lower Limit	Upper Limit	Unit
Amyloglucosidase unit AGU	460		/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
	1	1	1

COMPOSITION

Ingredients	Appr. % (w/w)
Water, CAS no. 7732-18-5	54.60
Glucoamylase (glucan 1,4-alpha-glucosidase),	37
CAS no. 9032-08-0*	
Sucrose/Glucose, D-, CAS no. 57-50-1/50-99-7	8
Sodium benzoate, CAS no. 532-32-1	0.30
Potassium sorbate, CAS no. 24634-61-5	0.10

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

А	LL	Е	R١	G	El	Ν	

Substance contained ¹	Allergen	Substance contained ¹	
	1		
no		no	
no	Legumes	no	
no	Lupin	no	
no	Milk	no	
no	Molluscs	no	
no	Mustard	no	
no	Nuts³	no	
no	Peanuts	no	
no	Pork	no	
no	Sesame	no	
no	Soy	no	
no	Sulphur dioxide/sulphites, more than 10 mg per kg or l	no	
	no no no no no no no no no no no no no	contained¹ no Lactose Legumes Lupin no Milk no Molluscs no Mustard no Nuts³ no Peanuts no Pork sesame no Soy no Sulphur dioxide/sulphites, more than 10 mg per kg	

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 niger
Donor organism Aspergillus niger

Produced by fermentation of a microorganism which is selfcloned according to the EU definition (further information available upon request). The enzyme protein is separated and purified from the production organism.

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.

Amylase™ AG XXL

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.

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

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. The product complies with EU legislation regarding pesticides.

PACKAGING

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

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