

# **Deltazyme AMG**

## Product Code: DG-DZAMG (Low Carb Enzyme) ALCE25

FOOD GRADE PRODUCT	

Description:	Deltazyme AMG is an A Aspergillus niger.	Amyloglucosidase produced by during the fermentation of	
	fermentation when ad increase attenuation p Deltazyme AMG can al increased alcohol stree	able of producing a high degree of true attenuation in grain ded to the fermenter. It can be used as a primary substitute or ermitting production of high alcohol beers. Treatment of wort with so result in the production of low carbohydrate diabetic beer of ngth. Deltazyme AMG hydrolyses both the hydrolysing (1-4) and-(1- tarch allowing for almost complete conversion of starch to glucose.	
Country of Origin:	Deltazyme AMG is bler	nded in Australia from local and imported ingredients	
Optimal Temperature:	The optimal temperaturiange 65°-75°C	ure for Deltazyme AMG is 58°C to 65°C with > 80% activity in the	
Optimal pH:	The optimal pH for Del	tazyme AMG is 4.0 with >80% activity in the range pH 3.0 - 4.5	
Specifications:	All analytical methods are available on request.		
	Colour: Activity: Specific Gravity: pH: Density: Heavy metals (as Pb): Lead: Arsenic:	Light Brown liquid >400 AMGU/ml 1.07 Typical 4.0 Typical 1.10 to 1.15 g/ml <30 mg/kg <5 mg/kg <3 mg/kg	
<u>Microbiological:</u>	Total plate count: Coliforms Salmonella E.coli Yeast & Moulds	<50,000/ml <30 CPU/m absent in 25ml absent in 25ml <200/ml	

#### **Recommended Dose Rate:**

#### **Brewing Industry**

- Mash and run off normally to the copper/kettle or to a special wort holding tank.
- Adjust temperature of the wort in the cooper/holding tank to 65°C. This temperature is important.
- Add Deltazyme AMG at the rate of 0.05 0.10 kg/hectolitre to the wort (depending on the degree of final attenuation required).
- Hold @ 65°C for 2-4 hours.
- Proceed with copper boil.



Storage:Deltazyme AMG will maintain the declared activity for 3 months when stored under cool and<br/>dry conditions, a 1-2 % drop in activity per month can occur subsequently.<br/>For optimum stability store refrigerated at 4-6°C

<u>Shelf-Life</u> The Recommended shelf life is 12 months.

Packing: Standard packaging for Deltazyme AMG is in 25kg FG drums, 5kg and 1kg FG containers.

#### Ingredients and Nutritional Facts:

• Glucoamylase, Dextrose, Sodium Benzoate, Potassium Sorbate

	Per 100g	
Energy	168 kj	
Carbohydrate	1-10 g	
Fat (Total)	<1 g	
(Saturated)	0 g	
Protein	2-10 g	
Sodium	mg	

Enzymes function in food processing systems as biocatalysts and are used at extremely low concentrations. It is highly unlikely that the enzyme materially contributes to the nutrition composition of the food.

## Halal and Kosher Status Suitable

# GMO Status Non GMO

#### **Allergen Status**

YES	NO	ALLERGENS
	Х	Cereals containing Gluten (Wheat, Rye, Barley, Oats or Spelt or their hybridized strains)
	Х	Crustacea & their products
	Х	Eggs & egg products.
	Х	Fish & fish products
	Х	Peanuts & their products
	Х	Soybeans & their products.
	Х	Milk & milk products (Lactose)
	Х	Nuts & nut products
	Х	Sesame seeds & their products
	Х	Added sulphites in concentration of 10mg/kg or more

Issue No:	Summary of changes made from previous version:	Actioned by:	Authorised by:
5	Addition of nutritional panel & allergen status	Maree Edleston	Michael Watson