

DELTAGEN

A Member of the Marigot Group



Australia

DELTAZYME HT

CODE:DG-BAA
FOOD GRADE PRODUCT

DESCRIPTION DELTAZYME HT is a heat stable alpha amylase derived from a selected strain of *Bacillus licheniformis*.

PHYSICAL FORM Varies from a very dark brown non-viscous liquid with a characteristic smell of Alpha Amylase, to an almost clear amber liquid with a slight pungent sulfurous smell.

INGREDIENTS Alpha Amylase enzyme concentrate
Stabilisers

SPECIFICATIONS All methods of analysis available on request.

Activity : 132,000 U/ml

Physical:

Specific gravity : 1.16 g/ml typical

pH : 6.5 typical

Heavy Metals:

Meets FCC specification for food grade enzymes

Total Heavy Metals : <40ppm

Lead : <10ppm

Arsenic : <3ppm

Microbiological:

T.V.C : <50,000/ml

Coliforms : <30CPU/ml

Salmonella : absent in 25g

E.Coli : absent in 25g

Yeasts & Moulds : <200/ml

T.E : <30/ml

APPLICATIONS

STARCH INDUSTRY AND DISTILLING INDUSTRY

DELTAZYME HT can be used for high temperature liquification of starch at temperatures of up to 105°C, Addition of calcium up to 50 ppm will increase the thermostability of the enzyme.

BREWING INDUSTRY

HITEMPASE 2L is ideally suited for high temperature liquification of unmalted cereal adjunct such as maize, rice or sorghum, at the cooking stage prior to incorporation into a brewing mash.

DOSE RATES

The recommended dose rate for **DELTAZYME HT** in the brewing industry is 0.6-1 lt / tonne of grain (dry weight basis) at the cooking stage.

ACTIVITY PROFILE

The optimum temperature for **DELTAZYME HT** is 95°C with >80% activity in the range 85 - 108°C.

The optimum pH for **DELTAZYME HT** is pH 6.0 - 7.5 with >80% activity in the range 5 - 8.0.

STORAGE AND STABILITY

No significant loss in activity on storage for a three month period @ 20°C. Long term stability of **DELTAZYME HT** is enhanced by storage below 10°C.

APPROVAL

DELTAZYME HT has been approved for use in foodstuffs as designed by M.A.F.F.

SAFETY/HANDLING

Prolonged skin contact with enzyme preparations should be avoided. In case of spillage or accidental contact rinse area thoroughly with water. A separate leaflet on safe handling is available on request.