

# ENDOZYM<sup>®</sup> Glucacel UHT

**ENDOZYM<sup>®</sup> Glucacel UHT is a blend of  $\beta$ -glucanase and xylanase, with cellulase side activity, for reducing wort viscosity and improving mash filterability.**

## PRODUCT PROPERTIES

**COMPOSITION:** a blend of  $\beta$ -glucanase and xylanase, with a cellulase side activity.

**ORIGIN:** Derived from selected strains of *Aspergillus niger* and *Trichoderma reesei*.

<b>ACTIVITY</b>	$\beta$ -glucanase	>290 BGU/g
	xylanase	>100 UXYL/g

**PHYSICAL FORM** Liquid

**COLOUR** Brown

**DENSITY** 1.14 g/ml

## APPLICATION BENEFITS

- Improves mash filterability caused by poor quality malt or use of high amounts of adjuncts (unmalted barley, naked oats) or by the release of high levels of hemicellulose by shear forces during mash agitation.
- Reduces wort viscosity for efficient and fast wort separation
- Increases extract yield
- Recommended for use in brewing recipes with > 40% adjuncts with high levels of  $\beta$ -glucan (>200mg/l) and for high gravity brewing with an OG >16°P / 1.068 SG
- Increases brewhouse capacity with faster throughput

## SPECIFICATIONS

<b>Total viable count</b>	< 50000 ufc/ml
<b>Coliforms</b>	< 30/ml
<b><i>E. coli</i></b>	Not detected/absent
<b>Salmonella species</b>	Not detected/absent

For additional specifications data please refer to the Compliance Data Sheet (CDS) or contact AEB Group Quality Control

## DOSAGE & APPLICATION

Typical dosage rate between 20-30ml per 100kg of malt

Recommended to be added during mashing.

*Note that the optimum dose rate will depend on the grist composition and mashing profile.*

OPTIMAL TEMPERATURE 50-75°C / 122-170°F

pH RANGE 4.7 – 7.0 (Optimal 5.0-5.5)

## PACKAGING & STORAGE

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*Please contact your local AEB customer support team for country-specific pack size availability*

Store in cool dry place <10°C / <50°F for maximum 18 months

On opening the bottle use the product as quickly as possible and within a maximum of 4 weeks while stored as specified above. If there are any signs of spoilage during storage of an opened bottle do not use and discard the contents appropriately. If in doubt, please contact AEB Technical Service.

## COMPLIANCE

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This product complies with the recommended specifications for food grade enzymes given by the joint FAO/WHO Expert committee on Food Additives (JECFA) and the Food Chemicals Codex (FCC)

*For more information, please refer to the Compliance Data Sheet (CDS) or contact AEB Group Quality Control*

## HANDLING & SAFETY

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This is a liquid product. Once opened, store in cool dry place <10°C / 50°F.

Enzymes are proteins. Exposure may induce sensitisation and may cause allergic reactions. Protective handling equipment is recommended.

Note that some natural settling and sedimentation may occur in the product, but this will not affect its performance.

*Please refer to the Safety Data Sheet (MSDS) for further information*

## QUALITY ASSURANCE & GMO STATUS

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This product is produced in accordance with certified quality management system ISO 9001, applying GMP, and HACCP standard.

The enzyme in this product is not produced from a Genetically Modified Microorganism (GMO).

This product is not treated with ionizing radiation.

*For more information, please refer to the Compliance Data Sheet (CDS) or contact AEB Group Quality Control*

## CONTACT US

For more information, please visit us online at [www.aeb-group.com](http://www.aeb-group.com) or email [info@aeb-group.com](mailto:info@aeb-group.com)

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