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| Approved By: | Philip Woodnutt |

Technical Data Sheet WHC Cellulase Enzyme

Description

A robust cellulase developed to break down cellulose in raw materials and adjuncts. Increases extract recovery, improves mash handling, and supports higher fermentation efficiency in grain and alternative substrate distilling applications.

Usage

The recommended dosage is 0.1-3kg /t DS.

Ingredients Declaration

Cellulase (5%)

CAS-No.: 9012-54-8

EC-No.: 3.2.1.4

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Resp. Sens. 1, H334

Technical Specifications

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| Visual Description | <i>Light yellow to brownish liquid. Color may vary from batch to batch. Color intensity is not an indication of enzyme activity.</i> |
| Dosage | 0.1-3kg /t DS |
| Activity Temperature | 40°C to 80°C or 104°F to 176°F |
| Optimal Temperature | 65°C to 75°C or 149°F to 167°F |
| Activity pH | 3.0-7.5 |
| Optimal pH | 4.5-6.0 |

Packaging

WHC Cellulase Enzyme is available in 25kg drums. These materials comply with relevant food-contact legislation, including, EU Regulation 1935/2004 (materials intended for contact with food), EU Regulation 1245/2020 (plastic materials intended for contact with food), EU Regulation 2023/2006 (GMP for materials intended for contact with food), and FDA CFR 21 (174-179) (USA).

Storage and Handling

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| Storage Conditions: | <p>Avoid direct exposure to sunlight or moisture while transporting and storing in cool, dry areas. Keeping original sealed container at or below 25°C. Product lasts longer if kept in 4°C to 10°C cold storage.</p> <p>Keep sealed after use every time to avoid microbial infections and inactivation of enzymes until its finish.</p> |
| Shelf life: | 12 months if stored as above. |
| Handling: | <p>For Safety: <i>Enzyme preparations are proteins that may induce sensitization and cause allergic type of symptoms in susceptible individuals. Prolonged contact may cause minor irritation for skin, eyes or nasal mucosa. Any direct contact with the human body should be avoided. If irritation or allergic response for skin or eyes develops, please consult a doctor.</i></p> <p>Please request a Material Safety Data Sheet/MSDS for further advice.</p> |

If you have any questions or concerns about our product please contact us at lab@whclab.com