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## Technical Data Sheet

### WHC ALDC Enzyme

#### Description

WHC Acetolactate Decarboxylase Enzyme, derived from *Bacillus licheniformis* through fermentation, plays a crucial role in preventing diacetyl formation and expediting taste harmonization during green beer maturation. This enzyme facilitates the direct decarboxylation of alpha acetolactate to acetoin, effectively reducing maturation time and eliminating Diacetyl production.

#### Usage

The recommended dosage of Acetolactate Decarboxylase Enzyme is 2 g/hl for cold wort, with the option to increase the amount if needed. To optimize diacetyl prevention, add the enzyme to the wort simultaneously with the yeast.

#### Ingredients Declaration

Decarboxylase, Acetolactate (25%)

CAS-No.: 9025-02-9

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

GLYCEROL (73.5%)

CAS-No.: 56-81-5

EC-No.: 200-289-5

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Acute Tox. 2 (Oral), H300

Potassium sorbate (1.5%)

CAS-No.: 24634-61-5

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Skin Irrit. 2 (H315), Eye Irrit. 2 (H319)

#### Technical Specifications

Visual Description	<i>Brown liquid</i>
Activity	<i>&gt; 2,000 U/g</i>
Optimum Temperature	<i>15°C to 35°C <u>or</u> 59°F to 95°F</i>
Dosage	<i>2 g/hl</i>

## Packaging

WHC Acetolactate Decarboxylase Enzyme is available in 1kg containers. 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

Storage Conditions:	For optimal storage of the WHC Acetolactate Decarboxylase Enzyme, it is recommended to keep it in its original unopened packaging in refrigerated conditions (4°C to 8°C) to maintain maximum activity. Avoid freezing the product and ensure containers are sealed when not in use. Store in a cool place, away from direct sunlight, to preserve its effectiveness
Shelf life:	As stated on the pack.
Handling:	<i>Care should be taken to avoid unnecessary skin contact during handling.</i> <b>Please request a Material Safety Data Sheet/MSDS for further advice.</b>

*If you have any questions or concerns about our product please contact us at [lab@whclab.com](mailto:lab@whclab.com)*