

# ANC ENZYME SOLUTIONS PTE LTD

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## ALDC 2000:

### $\alpha$ -Acetolactate Decarboxylase ( ALDC)

#### Introduction:

**ALDC 2000** prohibits or reduces the formation of dual-acetyl products in beer ensuring little or no effect on the taste. **ALDC 2000** catalyses the decarboxylation of  $\alpha$ -Acetolactate to Acetoin thereby preventing the formation of dual-Acetyl products.

#### Benefits:

- Reduction in Fermentation time due to the shortening of the maturation period.
- Increased production efficiency.
- Lower cost beer Production.
- Reduced risk of the Beer spoiling due to dual-acetyl product formation.

#### Specification:

Enzymes activity:	$\geq 2000$ u/g
Appearance:	Light brown translucent liquid
Total aerobic count:	100CFU/MI max
Coliforms:	30MPN/MI max
Salmonella:	Negative
Pathogens:	Negative
Lead	$\leq 1$ mg/kg
Arsenic	$\leq 1$ mg/kg
PH(1% Solution)	5.5–7.0

#### Application:

- Fermentation:
  1. Suggested 10-15ml/T cold wort.
  2. To ensure proper mixing add the ALDC 2000 to the wort in small amounts with constant mixing.
  3. When treating large batches or the yeast culture is weak in activity consider to increase the amount of ALDC 2000 by 20-40%.
- Clarification:
  1. Suggested 4-10ml/T of Beer.
  2. Add ALDC 2000 if the dual-acetyl level approaches the QC limit for your beer specification.
  3. If the dual-acetyl level has exceeded the QC limit add ALDC 2000 through the bottom of the cleaning tank, and at same time, inject CO<sub>2</sub> and bubble through for 5-10mins to mix enzyme and beer thoroughly.

#### Storage:

Transport and store in dry cool place. Avoid direct exposure to sunlight and moisture. If stored at 5°C-8°C in its original sealed container no more than 10% loss in activity will occur over a 6 month period.

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Nothing disclosed is to be construed as a recommendation to use our products in violation of any patents. The information presented is believed to be accurate. However, said information and products are offered without warranty or guarantee, except as to the level of activity stated herein since the ultimate conditions of use and variability of the materials are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. The goods described herein are sold "as is" and "with all faults." The seller specifically disclaims all warranties in connection with the sale of the goods, both express and implied, including, without limitation, the warranties of merchantability and fitness for any particular purpose.