



Catalysts
making things happen...

CATALYSTS-ADY

ACTIVE DRY YEAST

Catalysts-ADY is a most suitable yeast strain of *S. cerevisiae* being delivered in active dry yeast form, identified & screened by the Catalysts team, to achieve high gravity ethanol fermentation with a various sugar cane-based feedstocks such as Cane juice, Syrup, B-Heavy & C-Molasses. In less than two years of its introduction at PAN India level, Catalysts ADY has been very well accepted & now being regularly used by 72 syrup/molasses based distilleries. Distilleries using this yeast have been getting ethanol titre up to 15 % v/v with an average ethanol titre of >12.5 % v/v.

Features

- Easy to use dry yeast format.
- Higher viable cell counts of 20×10^9 cells/g
- High Ethanol tolerance up to 15% v/v

- High temperature tolerance up to 38 degree
- High osmotic pressure tolerance of sugar, VA & sulphites.
- Higher fermentation efficiency over culture yeast
- Moisture content less than 1% & efficient vacuum packing helps to store product for longer period

Application & Dosage

Catalysts-ADY is recommended to dose in pre-fermenter to maintain 10-12 Million cells/ml. This requires a dosing of 50 ppm on fermenter wash volume. Prior to use, the yeast should firstly be rehydrated in 5 times its weight of sterile water or wort. This is done at 35 ± 5 degree Celsius for 20 - 30 minutes to ensure proper conditioning and perfect homogenization.

Advantages

- **High gravity ethanol fermentation** - results in saving of valuable energy
- **Saving of molasses used for propagation** - reducing multiple fold propagation steps in a single PF step saves ~20,000 INR per day of molasses at 100 KLPD distillery
- **Prevent undesired microbial contamination** - Contamination chances are very high during multistep propagation, so single step propagation with fresh ADY maintains lower contamination load
- **Reduce multi-level propagation stress** - maintains higher viability, and better budding
- **Higher yield** - due to increased fermentation efficiency
- **Able to achieve maximum FE** - on different sugarcane-based feedstocks- No frequent change in product needed while processing different feedstocks
- No need of skilled microbiologist & dedicated microbiology lab to handle and culturing of yeast

Benefits

- **Being leaders in ADY applications** - having

largest market share in grain industry for more than a decade gives us unmatched expertise & knowledge to achieve maximum ethanol yield using Active Dry Yeast format

- **Systematic Scientific Approach** - a proper approach to convert valuable sugar by combining a process optimisation with suitable product incorporation to obtain a systematic dosage cum rehydration pattern for optimum product performance
- **Technical Support Team** - Dedicated technically strong team works onsite to establish a systematic scientific approach and proper data mining cum observations
- **On-site in-depth analysis** - Timely gap analysis to ensure product & optimised process performance
- **On-site Lactic Acid Estimation** - A special portable analyser kit provided to our technical team for onsite analysis of Lactic Acid in samples
- **State-of-the-art Laboratory Support** - Time-course analysis of samples via advanced scientific instruments and in-depth parameters analysis like HPLC (High Performance Liquid Chromatography) for accurate analysis and complete profiling of different sugars and volatile acid

