

ENZYLTREAT ADVANCE



Enzytreat Advance is a specific blend of high efficacy and broad-spectrum antimicrobial agents, which efficiently controls the wide variety of bacterial contamination in industrial process environment without affecting the growth & productivity of yeast. Enzytreat Advance have fast-acting biocidal agents with a moderately long duration of action. They are

active against targeted bacteria found during ethanol production from cane-based derivatives like juice, syrup & molasses. Enzytreat Advance have unmatched properties to show static to cidal effect on various aerobes and anaerobes comes in process through different water streams.

Properties

Enzytreat Advance is a liquid product, nontoxic and environment friendly however GMP is recommended. Its activity enhances substantially with increase in process temperature and prolonged exposure time whereas it remains almost unimpacted with in the variations in process pH conditions. • Working pH range : 4-10 • Working temp. range : 20 - 100°C

Mode of Action

Enzytreat Advance prevents the proliferation of undesirable bacterial cells by disruption of intermolecular interactions resulting in dissociation of cellular membrane lipid bilayers, which compromises cellular permeability controls and induces leakage of cellular contents. While other biomolecular complexes within the bacterial cell can also undergo dissociation.

Benefits

- Enzytreat Advance ensures prevention of sugar loss in process, generally occurs by undesirable bacterial contamination, which otherwise happens due to recycling of contaminated streams, contaminated raw material and process mediated bacterial proliferation.
- Enzytreat Advance also ensures none to approx, nil flora transfer in process which otherwise

happens due to recycle of waste/treated water by ETP plant.

- Reduces the input of contamination level with simultaneous control on their proliferation
- Controls VFA (volatile acids) production / increment during process.
- Improves process productivity & overall yield.

Product Application

Product can be dosed either in raw water/treated wastewater stream directly (if storage facility is available) or dose directly in the fermenter/reactor as per the recommended dosages. Product dose depends on the level of bacterial contamination in raw material (juice, syrup, B-Heavy/C-Molasses), raw

water and recycled streams (spent wash, Raw MEE condensate, BMSW MEE condensate). It is recommended to start with the dosage of 10 ppm over total wash volume followed by dose optimisation.

Product Dosing

Dose 5-10 ppm on mash volume
(Dose may vary depend on the level of contamination)

Product Specifications

Product Ammonium Ions based Composition antimicrobial salts
Occurrence Liquid
Appearance Clear Watery
Specific Gravity 1.05 - 1.25
pH 4.0-6.5

Packaging

HDPB drums 25 Kg packing available

Product Storage

Below 20°C Minimum shelf life of six months

Product Handling

- Inhalation of dust or aerosols may induce sensitization.
- May cause allergic reactions in sensitized individuals.
- May irritate the skin, eyes and mucous membranes upon contact.
- May create easily inhaled aerosols if splashed or vigorously stirred.
- Spilled product may dry out and create dust. . Spilled material should be flushed away with water.
- Avoid splashing.
- Left over material may dry out and create dust.
- Wear suitable protective clothing, gloves and eye/face protection.
- Contaminated cloths should be properly washed.
- MSDS is supplied with the product.
- Follow MSDS safety instructions for more details.



ISO 9001:2015 Certified | FSSC 22000 Certified

CORPORATE OFFICE:

240, Functional Industrial Estate, Patparganj,
Delhi - 110092, India

Phone: +91 11 49867313 / 49867314

Email: info@thecatalystsgroup.com

Web: www.thecatalystsgroup.com

Certifications:

