



# NATUNUTR-DSPN

***Advanced nutritive formulation to enhance yeast health, fermentation rate, and ethanol yield.***

In ethanol fermentation, inadequate yeast nutrition leads to poor yeast growth, slower fermentation rates, and increased by-product formation, ultimately reducing yield and process efficiency.

Natunutr-DSPN is a comprehensive nutrient formulation designed to provide all essential nutrients required for yeast growth, ensuring faster fermentation, improved productivity, and consistent performance.

## **Mode of Action**

- Provides essential nutrients including nitrogen, micronutrients, vitamins, and minerals required for yeast growth.
- Hydrolyses proteins and peptides into assimilable nitrogen sources, improving yeast nutrition.
- Supports rapid yeast multiplication and enhances fermentation kinetics, leading to improved ethanol production.

## **Product Key Benefits**

- Provides complete nutrition eliminating need for external nitrogen sources like urea or ammonia
- Enhances yeast growth and viability
- Improves fermentation rate and productivity
- Reduces by-product formation
- Ensures consistent fermentation performance under process conditions

## Product Application

Applicable in ethanol fermentation systems during yeast propagation, pre-fermentation, and fermentation stages.

## Operational Conditions

- Temperature: **30 – 50 °C**
- pH: **4 – 5.5**

## Dosage

- 40–60 ppm in mash.

## Product Characteristics

- Composition: Blend of essential enzymes and nutrients
- Form: Powder
- Appearance: Off-white to light brown

## Product Packaging

- 25 kg HDPE drums

## Product Shelf Life

- Minimum 12 months (below 25°C)

## Product Handling

- Avoid inhalation of enzyme dust or aerosols.
- Use PPE including gloves and eye protection.
- Prevent splashing and dust formation.
- Spilled material should be washed away with water.
- Store in shaded area away from sunlight and moisture.
- Follow MSDS guidelines.



ISO 9001:2015 Certified | FSC 22000 Certified

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Certifications:

