



DSPN-M

Product for Urea and DAP Replacement

DSPN-M is a proprietary blend of various essential nutrients specially designed to enhance the yeast health & productivity. Usage of this product helps to mitigate the nutrition deficiency & stress challenges faced by the yeast during fermentation with a variety of sugarcane-based feedstocks.

FEATURES:

DSPN ensures Distinguished Supply of Permeable Nutrients essential for yeast development & proper metabolic activities in desired unidirectional way towards ethanol production. DSPN provides the following nutrients for many essential purposes as mentioned below.

- Inorganic Phosphorus – Through enzymatic hydrolysis of inherent complex phosphorus form present in cane molasses
- Potassium – Providing for maintaining Na^+/k^+ balance, which is vital for regulating transfer of minerals through yeast cell wall
- Sodium – Providing for maintaining Na^+/k^+ balance, which is vital for regulating transfer of minerals

through yeast cell wall

- Sulphur – Consumable form of required sulphur blended in DSPN
- Precursor (Zn, Mg, etc.) – Consumable form & desired amount of Zn & Mg to ensure proper metabolic shift.
- Other vitamins and essential minerals – Inherent desired targeted vitamins & essential minerals for best productivity



ADVANTAGES:

- Better yeast growth & healthy progeny
- Helps yeast to work efficiently in stressed conditions such as high gravity fermentation
- Comparatively faster PF development
- Healthier cells and desired cell counts resulting in shorter fermentation time
- Overcomes challenges of stress created by recycled wastewater stream leads to achieve ZLD efficiently
- Smooth & hassle-free fermentation process

BENEFITS:

- Catalysts Team offers the most suitable product developed after years of research and experience.
- Products developed and offered based on various analysis & application studies conducted in our DSIR accredited lab equipped with the most sophisticated equipment.
- Professionally qualified, trained, and experienced scientists as well as process experts continuously working to provide best solutions.
- Well trained and qualified Customer Support team for trials/ demonstration and trouble-shooting activities always ensure best results.

- State of the art and well certified (FSSC 22000, HALAL, Kosher, FSSAI) production facility backed by well-defined and rigorous quality checks to ensure best quality products are always delivered to the client.
- COA (certificate of analysis) accompanies each batch of our product clearly mentioning its enzyme activity. We provide testing procedures and train our clients to verify the quality of each batch being supplied by us.
- Products and solutions being offered are developed based on decades of experience of analysing inputs and handling fermentation processes from across the world.
- Its Association with the world's best enzyme companies gives access to most advanced enzyme technologies and products.
- More than 300 satisfied customers across the world in 18 countries.

PRODUCT APPLICATION

DSPN-M is an enzyme nutrient composition for Yeast used at 5-20 ppm dosage rate on wash volume. Product is to be added in Yeast propagation vessels, Pre-fermenters, and Fermenter for better efficacy.



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:

