



Catalysts

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Natupap™ Super

Beta Glucanase Complex

NATUPAP SUPER is an optimum blend of purified papain. Papain is extracted from the fruit of papaya tree named Carica papaya. It is collected by trapping the unripe fruit, drying and then purifying the latex. Beta glucanase is an enzyme derived from selected strain of GRAS approved Penicillium species

Primary Beneficiary Function:

- Broad substrate specificity
- Capable of hydrolyzing small peptides as well as large proteins.
- Rapidly reduces viscosity of protein gels
- Increase filtration efficiency by reducing complex protein molecules

Secondary Beneficiary Function:

- Used to increase FAAN content in wort
- Provide nitrogen content by hydrolysing protein content to amino profiles

PRODUCT APPLICATION:

NATUPAP SUPER is degrading the higher molecular weight proteins. To ensure maximum utilization of enzyme it should be added during Initial stage or it can be added during filtration but it will be active in optimum process so enough contact time is required.

Product Characteristics:

Product Composition	Blend of essential enzymes & loyal ingredients
Occurrence	Powder
Appearance	Off-White

Product dosing:

Dose gm/hl

Product Operating Parameters:

Temperature	40-60°C
pH	5.0 – 7.0

Packaging:

HDPE drums Variable standard packaging sizes available

Product Storage :

Below 20°C	Minimum shelf life of six months
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Product Handling

- Enzymes are proteins. Inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact. The product 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.



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