

Natunase BG Prime

An efficient solution for Brewery Industry

Natunase BG Prime is a food grade complex of enzymes produced by fermentation of selected strains of *Trichoderma reesei*. The multi-component blend exhibits significant activity towards cellulose, hemicellulose, β glucans, arabinoxylans & proteins. The enzymes in Natunase BG Prime hydrolyse these NSP's & proteins often found in plant-derived substrates. Natunase BG Prime is specifically formulated to hydrolyse the non-starch polysaccharides & proteins of barley, wheat, soy and other plant-derived substrates. Typical applications for Natunase BG Prime include raw material processing, hydrolysis of plant-derived gums and treatment of fermentation media.

BENEFICIARY FUNCTIONS

- Natunase BG Prime is effective for the hydrolysis of cellulose, hemi-cellulose, β -glucan, arabinoxylans and other non-starch polysaccharides that can cause viscosity problems in industrial processes.
- Natunase BG Prime is effectively hydrolysing proteins present in different grains used in brewing
- Treatment of non-starch polysaccharides with Natunase BG Prime will reduce viscosity and improve process efficiency for unit operations such as filtration, ultra-filtration or centrifugation



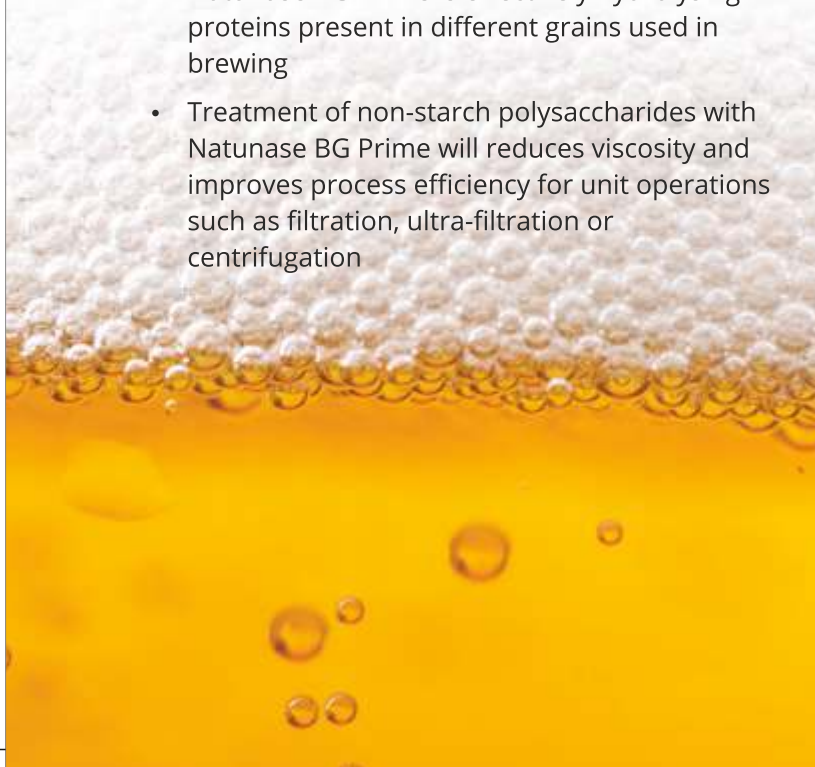
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PRODUCT APPLICATION

Beta-Glucanase represents a group of carbohydrase enzymes which break down glycosidic bonds within betaglucan, it performs hydrolysis of cellulose during drying of beans, Beta-Glucanase is used in textile industry as a fading agent. The preparation is mainly used in Malt extraction & beer-brewing in the mashing process to ensure efficient breakdown of β -glucans, pentosans and other gums. It also consists of very significant activity of xylanase which is effectively hydrolyses hemicellulose like arabinoxylan. Protease activity helps in effective hydrolysis of proteins and increases the Free amino nitrogen content of wort. This reduces the viscosity of the solution and thereby increases the filtration rate of both wort and beer and haze is avoided. The product is useful for high gravity brewing process with different type of grain like barley, maize & wheat



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PRODUCT CHARACTERISTICS

Declared Enzyme	Beta Glucanase
Declared Activity	NLT 6,000 U/g
Production Strain	Trichoderma reesei
Occurrence	Powder
Appearance	Off-white to brown

OPERATING PARAMETERS

Temperature	40 – 75 Degree Celsius
Range pH Range	4.5 – 6.2

DOSING

0.15 – 0.3 kg per ton of malt (Dosage may vary depend on grist type & ratio)

PACKAGING

Available in 25 Kg HDPE Drums

PRODUCT SHELF LIFE

Recommended storage condition is below 25 degree Celsius with one-year shelf life

Preferred refrigerated and sheltered condition against sunlight

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

Catalysts Biotechnologies Pvt Ltd

ISO 9001:2015 Certified | FSSC 22000 Certified

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Certifications:



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