

RossDext GL - Distilling



DESCRIPTION

RossDext GL[®] is an amyloglucosidase derived from fungus spp. Amyloglucosidase is an exo-amylase that catalyses release of successive glucose units from the non-reducing end of liquefied starch by hydrolyzing both the linear (1,4-alpha-D) and branched (1,6-alpha-D) glycosidic linkages.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown coloured liquid
Specific Gravity	1.12-1.15
Dosages	0.9 to 1.2 Kg/ton of starch
Operating Temp	30 - 60°C
Operating pH range	4.5-5.5 Solubility Miscible in water.

OPERATING CONDITIONS

The optimum saccharification condition will depend upon raw material, processing time, pH and temperature, dry solid concentration, enzyme dosage and desired end product.

Two alternatives procedures for initiating the saccharification may be used.

ENZYME ADDITION IN THE FERMENTOR

The cooked mash is diluted with water or stillage as necessary to obtain a maximum of 10 - 12 % (vol.) alcohol. After liquefaction, pH is adjusted to 5.0 ± 0.5 and the mash is cooled to a fermentation setting temperature of 28 - 30°C. The entire amount of saccharifying enzyme needed for a full fermentor batch is added together with the yeast inoculum to the first 5 - 10 % of the mash filled into the fermentor. (Yeast nutrients may also be added at this point of time.)

ENZYME ADDITION AT ELEVATED TEMPERATURE

The cooked mash is cooled to 55 - 60°C and pH is adjusted to 5.0 ± 0.5 before addition of saccharifying enzyme with the aim of obtaining a rapid production of fermentable sugar. The mash is maintained at 55 - 60°C for up to two hours before dilution and cooling to fermentation setting temperature as mentioned above.

PACKING

RossDext GL[®] is available in 50 kg jerry cans.



The information and data contained herein has been compiled based on information we believe reliable. Users should thoroughly test all applications and independently conclude satisfactory performance before commercializations, as these recommendations are non-binding. Uses assume all liabilities for use of the Products. We are not liable for any advice which we may have failed to give.

ROSSARI BIOTECH LIMITED

(An ISO 9001 : 2008 & 14001 : 2004 Certified Company)

201-A & B, Akruti Corporate Park, LBS Marg, Next to GE Gardens, Kanjurmarg (W.), Mumbai - 400 078. India.
Tel. No.: +91-22-2577 7605, Fax : +91-22-2579 6982, Email: info@rossarimail.com, Website: www.rossari.com