



Arteezyme[®] 100BA

Application Data Sheet

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Highly active Alpha amylase for starch processing production.

Description:

Arteezyme[®] 100BA is obtained from *Bacillus subtilis* and is an endo amylase. It can hydrolyze gelatinized starch, amylose and 1,4- α -D-glucanohydrolase in the branched chain starch, producing many maltose and little Maltotriose, Glucose and other oligosaccharides. The enzyme is an 1,4- α -D-glucanohydrolase, Enzyme code number: EC3.2.1.1.

Purity; regulatory aspects:

The enzyme in Arteezyme[®] 100 BA is manufactured to comply with current purity specifications of JECFA (FAO/WHO) and conforms to FCC's recommended specifications for food enzymes. These specifications encompass heavy metals as well as the microbiological characteristics. Arteezyme[®] 100 BA is GRAS in the USA.

Utilization:

Arteezyme[®] 100 BA with an activity not less than 500000 BA unit per g has shown to best perform when used under the following conditions given below. Calcium salts and sodium chloride improves the thermos stability of the enzyme. Calcium blocking substances such as ethylenediaminetetraacetic acid, phosphate and polyphosphate reduce the stability. Free chlorine in tap water inactivates this enzyme particularly in the absence of substrates. The product is insoluble in water.

Application	Dosage level	Recommendation
Starch scarification	Recommendation: use at a dose rate of 20-200 g per ton of dry starch.	Application at pH 4.8-10 & temperature 40–110°C. Optimum conditions: pH 5–7 and temp: 75 °C

The enzyme activity increases with increasing temperature, however, at temperatures above 90°C, the enzyme stability may decrease.

Packaging and storage:

Arteezyme[®] 100 BA is available in 2,5, 10 kg buckets. Arteezyme[®] 100 BA is best stored in the original packaging under 25 °C in order to retain maximum activity during storage.

Safety aspects and caution:

Enzyme products need to be handled with care. Please consult the separately available Material Safety Data Sheet for further information

Made by **Arteen Chimi Co., Iran**

To the best of our knowledge, the information contained herein is accurate and complete. However, nothing herein contained shall be construed to imply any warranty or guarantee.

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