

SZM AP-1+

Specialty Acid Protease enzyme for use in propagation and fermentation

Description

SZM AP-1+ is an acid protease enzyme that breaks down proteins. The key enzyme activity is provided by an endoprotease hydrolyzing various peptide bonds. Its application provides yeast nutrients in the form of essential and non-essential amino acids, peptides, and free amino nitrogen (FAN). It may also improve access of other hydrolytic enzymes to “bound” starch by breaking down structural proteins.

Typical Characteristics

Activity: 125 PROT-B/G

Appearance: Amber

pH: 4.0 – 9.0

Bulk Density: 1.16 – 1.20 g/mL

Performance Benefits

SZM AP-1+ provides the following potential benefits to ethanol producers.

- Higher ethanol yields
- Enhanced yeast performance
- Improved corn oil production
- Lower glycerol concentrations throughout fermentation
- Possible urea/ammonia reduction due to the increased amino acids, peptides, and FAN hydrolyzed by the protease

Dosage Recommendation

SZM AP-1+ should be dosed at 0.0030 - 0.0050% weight enzyme / weight as is corn. The actual dose required will depend upon the conditions of your fermentation: time, initial pH, and the level of solids.

Regulatory Status

- ISO 9001 registered company
- Kosher certified
- GRAS (Generally Recognized as Safe)

GM Status

This product is not a GMO.

The enzyme product is manufactured by fermentation of microorganisms that are not present in the final product. The production organisms and the enzyme effectiveness are improved by means of modern technology.

Packaging

SZM AP-1+ is available in 1,150 Kg totes.

Storage

SZM AP-1+ will meet the declared activity upon arrival at the plant.

Recommended storage: 0-25°C (32°-77°F)

Packing must be kept intact, dry, and away from sunlight. Please follow the recommendations and use the product before the best before date to avoid the need for a higher dosage.

Best before: The best before date can be found in the COA or on the product label.

The product gives optimal performance when stored as recommended and used prior to the best-before date.

Safety and Enzyme Handling

SZM AP-1+ contains proteins obtained from large-scale cultures of a mold. Proteins may cause an allergic-type reaction in sensitized individuals that could require immediate medical attention. Prolonged direct contact may cause minor irritation to skin, eyes, or mucus membranes. For detailed handling information, please refer to the appropriate Safety Data Sheet.

SZM AP-1+

Specialty Acid Protease enzyme for use in propagation and fermentation

Technical Service

CTE Global, Inc. is committed to formulating a productive and mutually beneficial relationship with ethanol producers in order to make their fermentation process as consistent, efficient, and cost-effective as possible. More detailed information about the application of this product is available upon request. If you have any questions, please contact us and let us know how we can be of assistance.

For more information contact:

CTE Global, Inc.
630 Dundee Road
Suite 440
Northbrook, IL 60062 USA
Telephone: 847-564-5770
Fax: 847-272-6003
Web address: www.cte-global.com