

## TSP+

**Advanced thermostable protease provides improvements in yeast nutrition and corn oil yield**

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### Description

TSP+ is an advanced thermostable protease for application in slurry and liquefaction to deliver improved nitrogen profile for yeast health, robust fermentations, and potential increases in corn oil yield.

### Typical Characteristics

**Appearance:** Light to dark brown liquid

**pH:** 4.0 -9.0

**Bulk Density:** 1.17 g/mL

### Dosage Recommendation

TSP+ should be dosed at 0.003%-0.007% weight enzyme / weight as is corn. The actual dose required will depend upon the conditions of liquefaction: time, temperature, initial pH and the level of solids.

### Regulatory Status

- ISO 9001 registered company
- Kosher
- 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 is improved by means of modern biotechnology.

### Packaging

The product is available in totes. Please contact the sales representative for more information.

### Storage

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

Packaging 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:** You will find the best before date in the certificate of analysis 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

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. See the MSDS or Safety Manual for further information regarding safe handling of the product and spills.

### Compliance

The product is produced by fermentation using a nonpathogenic, nontoxigenic microorganism known to be safe. The product is Generally Recognized as Safe (GRAS) for the intended use as a processing aid in the production of fuel ethanol in plants that also produce distiller's grains co-products (DDGS). The enzyme is nonfunctional in both the fuel ethanol and the DDGS. The product complies with the safety requirements of the US Federal Food, Drug and Cosmetic Act (FFDCA), including non-adulteration and suitability for use in animal feed.

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