

## FP Elite

### Advanced protease enzyme for use in propagation and fermentation

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#### Description

FP Elite is an advanced protease enzyme that hydrolyzes various peptide bonds to provide yeast nutrients in the form of amino acids and peptides. By breaking down structural proteins, it may also improve access to protein-bound starch and lipids, liberating starch and oil for potentially improved ethanol and oil yield.

#### Typical Characteristics

**Activity:** 150 PROT-B/G

**Appearance:** Amber

**pH:** 4.0 – 9.0

**Bulk Density:** 1.18 – 1.23 g/mL

**Properties:** Product may be hazy and contain slight precipitate; this does not affect enzyme activity or performance.

#### Performance Benefits

FP Elite provides the following potential benefits to ethanol producers:

- Optimize nitrogen along with liquefaction protease
- 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 and peptides generated by the protease

#### Dosage Recommendation

FP Elite should be dosed at 0.0025 - 0.0042% 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

FP Elite is available in 1,150 KG totes.

#### Storage

Fermentation Protease 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

FP Elite 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.

#### Technical Service

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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:

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