

Urease Recombinant

Item Number rAP-1384

Synonyms

Description Urease (EC 3.5.1.5) is an enzyme that catalyzes the hydrolysis of urea into carbon dioxide and ammonia. The reaction occurs as follows: $(\text{NH}_2)_2\text{CO} + \text{H}_2\text{O} = \text{CO}_2 + 2\text{NH}_3$. In 1926 James Sumner showed that urease is a protein. Urease is found in bacteria, yeast and several higher plants. Characteristics: Active site

Uniprot Accession Number

Amino Acid Sequence

Source Escherichia Coli.

Physical Appearance and Stability Sterile Lyophilized Powder. Urease although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Formulation and Purity Each mg of protein contains 420µg Potassium Phosphate and 30µg EDTA Na2. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Application

Solubility It is recommended to reconstitute the lyophilized Urease in sterile 18MΩ-cm H2O.

Biological Activity The activity was found to be 141U/mg powder.

Shipping Format and Condition Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**