

Recombinant Urease

Certificate of Analysis and Data Sheet

➤ Source: E.Coli	➤ Catalog No. ENZ-277
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➤ **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

➤ **Formulation:**

Each mg of protein contains 345µg Potassium Phosphate and 25µg EDTA Na₂.

➤ **Solubility:**

It is recommended to reconstitute the lyophilized Human Urease in sterile 18MO-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

➤ **Stability:**

Lyophilized Urease although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution Urease should be stored at 4° C between 2-7 days and for future use below -18° C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

➤ **Biological Activity :**

The specific activity was found to be 219IU/mg.

➤ **Unit Definition:**

One Unit oxidizes one micromole of NADH per minute at 25°C, at pH

7.6

➤ **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of Urease .

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.