

**Urease from Jack bean**

**Product Code:** 174591

**EC no:** 3.5.1.5

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**SKU:** 174591

**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

**EC 3.5.1.5**

**Product name:** Urea amidohydrolase

**Appearance:** white amorphous powder lyophilized

**Activity:** Grade II, 100U/mg-solid or more

**Contaminants:**

- Asparaginase <  $2.0 \times 10^{-2}$  %,
- Arginase <  $2.0 \times 10^{-3}$  %,
- $\text{NH}_4^+$  <  $5.0 \times 10^{-4}$  µg/U

**Stabilizers:** EDTA, glutathione, succinate, BSA

**Stability:** Stable at - 20 °C for at least 12 months

**Molecular weight:** Approx. 480,000

**Isoelectric point** 5.0 – 5.1

**Michaelis constants:**  $1.05 \times 10^{-2}$  M (Urea)

**Structure:** 8 active sites with SH-groups per mole of the enzyme

**Inhibitors:** Heavy metal ions ( $\text{Ag}^+$ ,  $\text{Hg}^{2+}$ , etc.)

**Optimum pH:** 6.0

**Optimum temperature:** 60 °C

**pH Stability:** pH 5.5 – 8.5 (30 °C, 17hr)

**Thermal stability:** below 50 °C, (pH 8.0, 60min)