

**Urease from Jack bean**      **Activity: > 220 U/mg**  
**Product Code:** 174501  
**EC no:**    **3.5.1.5**

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**SKU:** 174501  
**Category:** [Enzymes](#)

## PRODUCT DESCRIPTION

### SPECIFICATIONS:

#### EC 3.5.1.5

**Product name:** Urea amidohydrolase

**Appearance:** White amorphous powder lyophilized

**Activity:** > 220 U/mg solid (Nessler units)

**Contaminants:**  $\text{NH}_4^+ \leq 2.0 \times 10^{-4} \mu\text{mol/U}$

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

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

**Isoelectric point:** pH 5.0 – 5.1

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

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

**Inhibitors:** Heavy metal ions (Ag<sup>+</sup> Hg<sup>2+</sup> 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)