

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

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⁺ Hg²⁺ 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)