

Urease from Bacteria, Recombinant

Cat. No. NATE-1035

Lot. No. (See product label)

Introduction

Description Ureases, functionally, belong to the superfamily of amidohydrolases and phosphotriesterases. It is an enzyme that catalyzes the hydrolysis of urea into carbon dioxide and ammonia. The reaction occurs as follows: $(\text{NH}_2)_2\text{CO} + \text{H}_2\text{O} \rightarrow \text{CO}_2 + 2\text{NH}_3$.

Synonyms Urease

Product Information

Species Bacteria

Source E. coli

Form Lyophilized powder

EC Number EC 3.5.1.5

CAS No. 9002-13-5

Molecular Weight 60.3 kD α subunit, 11.7 kD β subunit, 11.1 kD γ subunit (SDS-PAGE)

Activity > 150 Units / mg

Contaminants NADPH oxidase <0.001%

pH Stability 8.0 - 9.5

Optimum pH 6

Thermal stability <65°C

Optimum temperature 37°C

Storage and Shipping Information

Storage Below -20°C