

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