Creative Enzymes®

Native E. coli N-Carbamoylsarcosine Amidase

Cat. No. NATE-0876

Lot. No. (See product label)

Introduction

Description	In enzymology, a N-carbamoylsarcosine amidase is an enzyme that catalyzes the chemical reaction: N-carbamoylsarcosine + H2O rightleftharpoons sarcosine + CO2 + NH3. Thus, the two substrates of this enzyme are N-carbamoylsarcosine and H2O, whereas its 3 products are sarcosine, CO2, and NH3. This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in linear amides. This enzyme participates in arginine and proline metabolism.
Applications	Use N-Carbamoylsarcosine Amidase in diagnostic tests for the determination of creatinine in combination with Creatinine Deaminase, N-Methylhydantoinase (ATP-hydrolysing) and Sarcosine Oxidase.
Synonyms	N-carbamoylsarcosine amidase; N-carbamoylsarcosine amidohydrolase; carbamoylsarcosine amidase

Product Information

Species	E. coli
Source	E. coli
Appearance	White lyophilizate
CAS No.	92767-52-7
Activity	0.80-1.30 U/mg
Contaminants	Creatinase: <0.013 Creatininase: <0.01 Catalase: <30 Uricase: <0.01
pH Stability	7.3-8.3

Storage and Shipping Information

Stability	At -15 to -25°C within specification range for 12 months. Store dry. Protect from light.