Creative Enzymes®

Native Escherichia coli L-Arginine Decarboxylase

Cat. No. NATE-0033

Lot. No. (See product label)

Introduction

Description	In enzymology, an arginine decarboxylase (EC 4.1.1.19) is an enzyme that catalyzes the chemical reaction:L-arginine↔ agmatine + CO2. Hence, this enzyme has one substRate, L-arginine, and two products, agmatine and CO2. This enzyme belongs to the family of lyases, specifically the carboxy-lyases, which cleave carbon-carbon bonds. It employs one cofactor, pyridoxal phosphate.
Synonyms	arginine decarboxylase; EC 4.1.1.19; 9024-77-5; SpeA; L-arginine carboxylyase; L-Arginine Decarboxylase; ADC

Product Information

Source	Escherichia coli
EC Number	EC 4.1.1.19
CAS No.	9024-77-5
Activity	5-15 units/mg protein
Unit Definition	One unit will release 1.0 µmole of CO2 from L-arginine per min at pH 5.2 at 37°C.

Storage and Shipping Information

Storage	−20°C