

Native *Bacillus* sp. Sarcosine Oxidase

Cat. No. NATE-0664

Lot. No. (See product label)

Introduction

Description

Sarcosine oxidase is an enzyme (EC 1.5.3.1) that catalyzes the oxidative demethylation of sarcosine to yield glycine, H₂O₂, 5,10-CH₂-tetrahydrofolate in a reaction requiring H₄-tetrahydrofolate and oxygen. Corynebacterial sarcosine oxidase is a heterotetramer and is produced as an inducible enzyme when *Corynebacterium* sp. is grown with sarcosine as source of carbon and energy.

Applications

Sarcosine oxidase has been used in a study as part of a multienzyme cascade, that when immobilized constructed amperometric biosensors. Sarcosine oxidase has also been used in a study to investigate oxidation of amines by flavoproteins.

Synonyms

Sarcosine oxidase; EC 1.5.3.1; 9029-22-5; sarcosine:oxygen oxidoreductase (demethylating)

Product Information

Source

Bacillus sp.

Form

lyophilized powder; No stabilizers added

EC Number

EC 1.5.3.1

CAS No.

9029-22-5

Activity

25-50 units/mg solid

Unit Definition

One unit will form 1.0 μ mole of formaldehyde from sarcosine per min at pH 8.3 at 37°C.

Storage and Shipping Information

Storage

–20°C