

## **Native Streptococcus faecalis L-Tyrosine Decarboxylase**

Cat. No. NATE-0421

Lot. No. (See product label)

## Introduction

**Description** In enzymology, a tyrosine decarboxylase (EC 4.1.1.25) is an enzyme that catalyzes

the chemical reaction:L-tyrosine↔ tyramine + CO2. Hence, this enzyme has one substrate, L-tyrosine, and two products, tyramine and carbon dioxide. This enzyme belongs to the family of lyases, specifically the carboxy-lyases, which cleave carbon-carbon bonds. This enzyme participates in tyrosine metabolism and alkaloid

biosynthesis. It employs one cofactor, pyridoxal phosphate.

**Applications** L-Tyrosine decarboxylase from Strept oc occus faecalis has been used in a study to

isolate and identify the carbonyl-active site of diamine oxidase by gas  $% \left\{ 1\right\} =\left\{ 1\right\} =\left\{$ 

chromatographic mass spectrometry. L-Tyrosine decarboxylase from Strept oc occus faecalis has also been used in a study to investigate the adsorption of Strept

oc occus faecalis on diatomite carriers for use in biotransformations.

**Synonyms** tyrosine decarboxylase; EC 4.1.1.25; L-tyrosine decarboxylase; L-(-)-tyrosine

apodecarboxylase; L-tyrosine carboxy-lyase; 9002-09-9

## **Product Information**

**Source** Streptococcus faecalis

**EC Number** EC 4.1.1.25

**CAS No.** 9002-09-9

**Activity** > 0.1 unit/mg solid

Unit Definition One unit will cause the decomposition of 1.0 µmole of L-tyrosine per min at pH 6.2

at 37°C.

## Storage and Shipping Information

*Storage* −20°C

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1/1