

## Native Mushroom Tyrosinase

Cat. No. NATE-0726

Lot. No. (See product label)

### Introduction

**Description** Tyrosinase is a copper-containing oxidase, which has activity for both catechols and cresol. It is responsible for browning reactions. This enzyme is reported to have two binding sites for aromatic substrates and a different binding site for oxygen-copper.

**Applications** Tyrosinase activity has been assessed in a study that developed an alternative therapeutic agent for treating hyperpigmentation. Tyrosinase has also been used in a study to investigate the ocul cutaneous albinism phenotype in the Pakistani population.

**Synonyms** Tyrosinase; EC 1.14.18.1; 9002-10-2; monophenol monooxygenase; phenolase; monophenol oxidase; cresolase; monophenolase; tyrosine-dopa oxidase; monophenol monooxidase; monophenol dihydroxyphenylalanine:oxygen oxidoreductase; N-acetyl-6-hydroxytryptophan oxidase; monophenol, dihydroxy-L-phenylalanine oxygen oxidoreductase; o-diphenol:O<sub>2</sub> oxidoreductase; phenol oxidase

### Product Information

**Source** Mushroom

**Form** lyophilized powder

**EC Number** EC 1.14.18.1

**CAS No.** 9002-10-2

**Molecular Weight** 128 kDa by sedimentation velocity diffusion; 133 kDa by light-scattering measurements, and 119.5 kDa by electrophoresis.

**Activity** 700 unit/mg solid

**Isoelectric point** 4.7-5

**Optimum pH** 6-7

**Unit Definition** One unit =  $\Delta A_{280}$  of 0.001 per min at pH 6.5 at 25°C in 3 mL reaction mix containing L-tyrosine.

### Storage and Shipping Information

**Storage** -20°C