

Laccase, food grade

Cat. No. EXTZ-174

Lot. No. (See product label)

Introduction

Description

This product is produced through deep liquid fermentation of the *Aspergillus oryzae* strain, followed by advanced extraction processes, ultrafiltration, and concentration to obtain a purified product. Laccase is a copper-containing protease composed of three parts: a peptide chain, a glycosyl moiety, and Cu^{2+} ions. The copper ions are located at the active site of the enzyme, where they can transfer electrons in a coordinated manner during the oxidation reaction and reduce oxygen to water. Laccase can catalyze the oxidation of a wide range of substrates, including phenols and their derivatives, arylamines and their derivatives, carboxylic acids and their derivatives, steroid hormones, biological pigments, metal-organic compounds, and non-phenolic compounds. The higher the redox potential of the laccase, the broader the range of substrates that can be degraded.

Product Information

Form

Powder