Creative Enzymes®

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