Creative Enzymes®

Laccase from Bacillus subtilis, Recombinant

Cat. No. NATE-1570

Lot. No. (See product label)

Introduction

Description	Laccase is a blue copper oxidase that reduces molecular oxygen to water. Laccase oxidizes polyphenols, methoxy-substituted phenols and diamines, but not tyrosine. Oxidation by laccase is an one-electron reaction that generates a free radical.
Synonyms	Laccases; EC 1.10.3.2; 80498-15-3; urishiol oxidase; urushiol oxidase; p-diphenol oxidase; benzenediol:oxygen oxidoreductase

Product Information

Species	Bacillus subtilis
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide and 25% (v/v) glycerol
Molecular Weight	60.5 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	3
Optimum temperature	50-60 °C
Specificity	2,20-azinobis(3-ethylbenzthiazoline-6-sulfonic acid) (ABTS)

Storage and Shipping Information

Storage	This enzyme is shipped at room temperature but should be stored at -20 °C.