

## 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; urushiol oxidase; urushiol oxidase; p-diphenol oxidase; benzenediol:oxygen oxidoreductase

### Product Information

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