Creative Enzymes®

Native Bovine Lactoperoxidase

Cat. No. NATE-0418

Lot. No. (See product label)

Introduction

Description	Lactoperoxidase catalyzes the oxidation of iodide to iodine by hydrogen peroxide. This activity provides a gentle, specific alternative to chloramine T for the radioiodination of proteins and DNA.
Synonyms	lactoperoxidase; guaiacol peroxidase; plant peroxidase; Japanese radish peroxidase; horseradish peroxidase (HRP); soybean peroxidase (SBP); extensin peroxidase; heme peroxidase; oxyperoxidase; protoheme peroxidase; pyrocatechol peroxidase; scopoletin peroxidase; Coprinus cinereus peroxidase; Arthromyces ramosus peroxidase; EC 1.11.1.7; 9003-99-0; LPO; SPO

Product Information

Species	Bovine
Source	Bovine milk
Form	Type I, ammonium sulfate suspension, Suspension in 3.2 M (NH4)2SO4 pH approx. 7.0; Type II, Type IV, lyophilized powder; Type III, lyophilized powder (essentially salt-free).
EC Number	EC 1.11.1.7
CAS No.	9003-99-0
Activity	Type I, > 50 units/mg protein; Type II, > 150 units/mg; Type III, > 200 units/mg protein; Type IV, > 80 units/mg protein.
Pathway	Salivary secretion, organism-specific biosystem; Salivary secretion, conserved biosystem
Function	calcium ion binding; heme binding; thiocyanate peroxidase activity
Unit Definition	One unit will form 1.0 mg of purpurogallin from pyrogallol in 20 sec at pH 6.0 at 20°C.

Storage and Shipping Information

Storage	−20°C