

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; oxypoxidase; 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