Creative Enzymes®

Native Corallina officinalis Bromoperoxidase

Cat. No. NATE-0091

Lot. No. (See product label)

Introduction

Description	Bromoperoxidase from Corallina officinalis is a phenoxazine dye. The brilliant cresyl blue (BCB) test determines the activity of glucose-6-phosphate dehydrogenase (G6PDH). The activity of this enzyme is greatest in growing oocytes and declines as oocytes mature. It stains reticulocytes and trichomonads. Bromoperoxidase contains a significant amount of nonheme iron. It is activated by vanadate ions. Maximal activity is achieved with stoichiometric vanadium incorporation.
Applications	Bromoperoxidase from Corallina officinalis may be used for staining brain tissue, nuclei, plant chromosomes, reticulocytes, platelets and reticulated red cells. It may be used for the detection of biochemical molecules and the BCB enzyme assay. The BCB assay is also used industrially in optical data storage.
Synonyms	BCB; Bromide Peroxidase; Bromoperoxidase; 69279-19-2

Product Information

Source	Corallina officinalis
Form	Partially purified, lyophilized powder containing MES buffer salts
CAS No.	69279-19-2
Activity	> 100 units/mg protein (Lowry)
Unit Definition	One unit will catalyze the conversion of 1.0 µmole of monochlorodimedon to monobromochlorodimedon per min at pH 6.4 at 25°C.

Storage and Shipping Information

Storage	−20°C