Creative Enzymes®

Bovine Superoxide dismutase-polyethylene glycol

Cat. No. NATE-0682

Lot. No. (See product label)

Introduction

Description	Superoxide dismutases (SOD) are enzymes that alternately catalyze the dismutation (or partitioning) of the superoxide (O2−) radical into either ordinary molecular oxygen (O2) or hydrogen peroxide (H2O2). Superoxide is produced as a by-product of oxygen metabolism and, if not regulated, causes many types of cell damage. Hydrogen peroxide is also damaging, but less so, and is degraded by other enzymes such as catalase. Thus, SOD is an important antioxidant defense in nearly all living cells exposed to oxygen. One exception is Lactobacillus plantarum and related lactobacilli, which use a different mechanism to prevent damage from reactive (O2−).
Synonyms	PEG-SOD; Superoxide dismutase-polyethylene glycol; SOD-PEG

Product Information

Species	Bovine
Source	Bovine Kidney
Appearance	Off-white
Form	Lyophilized powder
Activity	11,000 units/mg SOD before conjugation; SOD/PEG ratio: 10-20 PEG with each SOD enzyme
Composition	SOD from bovine conjugated with MW 5000 PEG

Storage and Shipping Information

Storage	Store at -20°C