

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 (O_2^-) radical into either ordinary molecular oxygen (O_2) or hydrogen peroxide (H_2O_2). 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 (O_2^-).

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 $-20^{\circ}C$