

Active Native Bovine CAT

Cat. No. CAT-101B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Bovine CAT was purified from Bovine Liver.
Species	Bovine
Source	Bovine Liver
Description	Catalase is a common enzyme found in nearly all living organisms exposed to oxygen. It catalyzes the decomposition of hydrogen peroxide to water and oxygen. It is a very important enzyme in reproductive reactions. Likewise, catalase has one of the highest turnover numbers of all enzymes; one catalase molecule can convert millions of molecules of hydrogen peroxide to water and oxygen each second. Catalase is a tetramer of four polypeptide chains, each over 500 amino acids long. It contains four porphyrin heme (iron) groups that allow the enzyme to react with the hydrogen peroxide.
Appearance	Green Powder
Activity	>7,500 u/mg powder @ 25oC
Protein	>10,000 u/mg by Coomassie
Form	Lyophilized
Expiration	3 years

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Storage	-20oC
OfficialSymbol	CAT
GENE INFORMATION	
Gene Name	CAT catalase [Bos taurus]
Synonyms	CAT; catalase; EC 1.11.1.6
Gene ID	531682
mRNA Refseq	NM_001035386
Protein Refseq	NP_001030463
UniProt ID	P00432
Chromosome Location	15
Pathway	Amyotrophic lateral sclerosis (ALS); Glyoxylate and dicarboxylate metabolism; Metabolism; Metabolism of nucleotides
Function	NADP binding; aminoacylase activity; catalase activity; enzyme binding; heme binding; metal ion binding; protein homodimerization activity; receptor binding
PDB rendering basedon 1dgb.	

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