

## Active Native Bovine CAT

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

### SPECIFICATION

<b>Product Overview</b>	Native Bovine CAT was purified from Bovine Liver.
<b>Species</b>	Bovine
<b>Source</b>	Bovine Liver
<b>Description</b>	<p>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.</p> <p>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.</p>
<b>Appearance</b>	Green Powder
<b>Activity</b>	>7,500 u/mg powder @ 25oC
<b>Protein</b>	>10,000 u/mg by Coomassie
<b>Form</b>	Lyophilized
<b>Expiration</b>	3 years

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 45-1 Ramsey Road, Shirley, NY 11967, USA



**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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