

Native *Aspergillus* sp. Catalase

Product Information

Cat#	DIA-131
Abbr	CAT (<i>Aspergillus</i> sp.)
Alias	CAT
Similar	CAT
Source	<i>Aspergillus</i> sp.
Description	Catalase is a common enzyme found in nearly all living organisms, where it functions to catalyze the decomposition of hydrogen peroxide to water and oxygen. Catalase has one of the highest turnover numbers of all enzymes; one molecule of catalase can convert millions of molecules of hydrogen peroxide to water and oxygen per 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. The optimum pH for catalase is approximately 7, while the optimum temperature varies by species.
Applications	Auxillary enzyme useful in many assay formulations
Form	Liquid
Enzyme Commission Number	EC 1.11.1.6
Activity	150,000 U/ml or more
CAS No.	9001-0 5-2
Optimum pH	8
Optimum temperature	35°C
Thermal stability	< 40°C (pH7.0, 20min)
Storage	-20°C



Creative Enzymes

Diagnostic Enzymes

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Synonyms

hydrogen-peroxide: hydrogen-peroxide oxidoreductase; equilase; caperase; optidase; catalase-peroxidase; CAT; EC 1.11.1.6; 9001-05-2; Catalase
