



ENZYMES
CAT# CATA-70-6004
EC# 1.11.1.6

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Catalase

ORIGIN *Aspergillus niger*

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► SPECIFICATIONS

Appearance	Liquid
Activity	≥ 3368 U/g liquid at 25°C
pH	5.1-5.4
Specific gravity	1.15-1.19 g/mL
Microbiological analysis	≤ 50,000 CFU/mL

► APPLICATION

Catalase can be used for the enzymatic removal of hydrogen peroxide.

► UNIT DEFINITION

One Baker unit of activity is defined as the amount of enzyme that will catalyze the degradation of 264 mg of hydrogen peroxide at 25°C under the standard assay method conditions.

► ASSAY PRINCIPLE

Catalase catalyses the following reaction:



The rate of decrease in H_2O_2 concentration is followed directly by titration.

CHARACTERISTICS

Optimum pH:	pH 5.5
Optimum Temperature:	40°C
pH Stability (Fig. 1):	pH 3.0-9.0 (50°C for 15 minutes)
Thermal Stability (Fig. 2):	30°C-65°C (50°C for 15 minutes)

FIG. 1: pH STABILITY (50°C FOR 15 MINS)

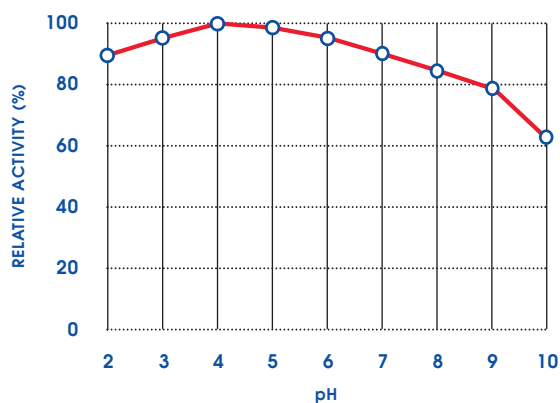
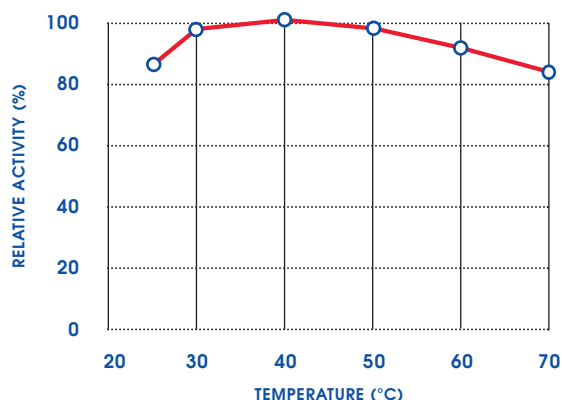


FIG. 2: THERMAL STABILITY (50°C FOR 15 MINS)



THE AMERICAS

Sekisui Diagnostics, LLC
 4 Hartwell Place
 Lexington, MA 02421
 Phone: 800 332 1042
 Fax: 800 762 6311

INTERNATIONAL

Sekisui Diagnostics (UK) Limited
 Liphook Way, Allington
 Maidstone, Kent, ME16 0LQ, UK
 Phone: +44 1622 607800
 Fax: +44 1622 607801

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DIAGNOSTICS

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engage@sekisuienzymes.com
www.sekisuienzymes.com