

1. IDENTIFICATION

Product name: Lipase (CATALOG No. L7513)
Product Use: For the quantitative kinetic determination of pancreatic lipase in serum.
Supplier: HORIBA Instruments, Inc.
 5449 Research Drive
 Canton, Michigan 48188
 Ph: 1-734-487-8300
 Fax: 1-734-483-1592
Emergency: HORIBA Instruments, Inc. Tel. 1-800-445-9853

2. HAZARD(S) IDENTIFICATION

Hazard Classifications: Not Classified
GHS Label Elements:
Signal Word: No signal word
Hazard Statements: Not applicable
Precautionary Statements:
Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance: Not Applicable
Mixture:

Reagent 1:	Tris buffer (40 mmol/L) Colipase (≥ 1 mg/L) Desoxycholate (≥ 1.8 mM/L) Taurodesoxycholate (≥ 7.0 mM/L)
Reagent 2:	Tartrate Buffer (15 mM/L) Lipase Substrate (≥ 0.7 mM/L) Calcium ions (≥ 1.0 mM/L)

4. FIRST AID MEASURES

SKIN: In case of contact, immediately flush area with plenty of water. Remove contaminated clothing. Get medical attention if irritation develops or persists.
EYES: Immediately flush eyes with plenty of water for at least 15 minutes, while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.
ORAL: If ingested drink plenty of fluids and contact a physician or poison control center.
INHALATION: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

5. FIRE-FIGHTING MEASURES

Flammable: NO
Extinguishing media: As appropriate for fire in surrounding materials; water spray, carbon dioxide, or dry chemical.
Flash point: Not Applicable
Upper flammable limit: Not Applicable
Lower flammable limit: Not Applicable
Auto ignition temperature: Not Applicable
Hazardous combustion products: Not Applicable.
Explosion data
Sensitivity to mechanical impact: Not Applicable
Sensitivity to static discharge: Not Applicable
Unusual fire and explosion hazards: No Data

6. ACCIDENTAL RELEASE MEASURES

Local exhaust:	Not Required- avoid dust formation.
Protective clothing:	Lab Coat
Protective gloves:	Rubber/Latex
Eye protection:	Safety glasses
Respiratory protection:	Required only if inadequate ventilation.
Leak and spill procedure:	Reagent/Standard: Collect spillage and dispose of to a waste disposal plant. Prevent entry into water system.

7. HANDLING AND STORAGE

Handling:	Normal precautions for handling chemicals must be observed. Provide appropriate exhaust ventilation at places where dust is formed. Persons susceptible for allergic reactions should not handle this product. Wash thoroughly after handling. Observe good industrial hygiene practices.
Storage:	Store between 2-8 °C
Shipping regulations:	Not regulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Local exhaust:	Required if generating dust formation.
Protective clothing:	Lab Coat
Protective gloves:	Rubber/Latex
Eye protection:	Safety glasses
Respiratory protection:	Required if inadequate ventilation.
Other precautions:	Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Stable liquid
Appearance and odor:	Not Available
Odor threshold:	Not Available
Vapor pressure:	Not Available
Vapor density:	Not Available
Specific gravity:	Not Available
Evaporation rate:	Not Available
Melting point:	Not Available
Boiling point:	Not Available
Solubility in water:	Not Available
pH:	R1: 8.3 R2: 4.0

10. STABILITY AND REACTIVITY

Reactivity:	No additional information available
Chemical Stability:	No additional information available
Possibility of hazardous reactions:	No additional information available
Conditions to Avoid:	No additional information available
Incompatible materials:	No additional information available
Hazardous polymerization:	No additional information available
Hazardous decomposition products:	No additional information available

11. TOXICOLOGICAL INFORMATION

Information of toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeat exposure)	Not classified
Aspiration hazard	Not classified

12. ECOLOGICAL INFORMATION

Toxicity:	No additional information available
Persistence and degradability:	No additional information available
Bioaccumulative potential:	No additional information available
Mobility in soil:	No additional information available
Other Adverse effects:	No additional information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	No additional information available
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14. TRANSPORT INFORMATION

Department of Transportation (DOT)	In accordance with DOT Not regulated for transport
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ADR	No additional information available
Transport by sea	No additional information available
Air transport	No additional information available

15. REGULATORY INFORMATION

US Federal Regulations:	No additional information available
International Regulations	
Canada:	No additional information available
EU-regulations:	No additional information available
Classification according to Regulation (EC) No. 1272/2008 [CLP] :	No additional information available
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] :	No additional information available
National regulations:	No additional information available
US State regulations:	No additional information available

16. OTHER INFORMATION

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable.

Document number: SDS-L7513

Rev. 6/22