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Datasheet

Collagenase Type 1 (*C. histolyticum*)

Catalog Number: P5276

Regulation Status: For research use only (RUO)

Product Description: Lyophilized. Dialyzed. The balance of collagenase, caseinase, clostripain and tryptic activities.

Host: Clostridium Species

Applications: Enzyme

(See our web site product page for detailed applications

information)

Protocols: See our web site at

http://www.abnova.com/support/protocols.asp or product

page for detailed protocols

Form: Lyophilized

Preparation Method: Native protein purified from

Clostridium histolyticum

Activity: >=125 units per mg dry weight. One Unit releases one micromole of L-leucine equivalents from collagen in 5 hours at 37°C, pH 7.5.

Recommend Usage: Collagenase Assay; Epithelial, liver, lung and adrenal primary cell isolations.

Storage Instruction: Store at 4°C on dry atmosphere. For primary cell isolation, culture and tissue dissociation: Reconstituted in balanced salt solutions (such as Hank's, Earle's and others) at concentrations from 0.05% to 0.5% (w/v). For enzymetic assay: Reconstituted in 0.05 M TES buffer with 0.36 mM calcium chloride, pH 7.5 at a concentration of 1.0 mg/ml.



MATERIAL SAFETY DATA SHEET

SECTION 1 - Product and Company Information

Product name: Collagenase Type 1 (C. histolyticum)

Company: Abnova (Taiwan) Corporation

Address: 3F, No.132, Siyuan Rd., Jhongli City, Taoyuan County, 320 Taiwan.

Telephone: +886-3-4336988 Fax: +886-3-4336669

SECTION 2 - Hazards Identification

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. May cause

gastric disturbances and electrolytic imbalance. Ingestion of large amounts of sodium chloride may cause nausea, and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration and internal organ

congestion.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found. None

SECTION 3 - Composition/Information on Ingredient

Collagenase Type1 (*C.histolyticum*) supplied as lyophile from native protein purified from *Clostridium histolyticum*.

Buffer Composition

CAS#	Chemical Name	Concentration	EINECS/ELINCS
N/A	N/A	N/A	N/A

Additive Composition

CAS#	Chemical Name	Concentration	EINECS/ELINCS
N/A	N/A	N/A	N/A

There are no ingredient presents which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require in this section.



SECTION 4 - First aid measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting

the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Get medical aid if irritation develops or

persists. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of

milk or water. Never give anything by mouth to an unconscious person. Get

medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing,

give artificial respiration. If breathing is difficult, give oxygen. Get medical

aid.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 - Fire fighting measures

Fire Extinguisher Type: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Fire Fighting Procedure: As in any fire, wear a self-contained breathing apparatus in

pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is

noncombustible.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

SECTION 6 - Accidental release measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Clean up spills immediately, observing precautions in the Protective

Equipment section. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 - Handling and storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid

contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area

away from incompatible substances.



SECTION 8 - Exposure Controls

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as

described by OSHA's eye and face protection regulations in 29 CFR

1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced.

SECTION 9 - Physical and chemical properties

Appearance: Liquid

Not available pH: Boiling point: Not available Not available Vapor density: Vapor pressure: Not available Not available Density (g cm-3): Flash point: Not available **Explosion limits:** Not available Auto ignition temperature: Not available

SECTION 10 - Stability and reactivity

Stability: Stable.

Conditions to avoid: Heating above room temperature, freezing, contaminating.

Materials to avoid: Generally use only clean glass and plastic suitable for laboratory use for

handling the antibody preparation.

Note that individual ingredients are incompatible with acids, heavy metals,

metallic salts, bromine, dimethylsulfate, copper, dichloromethane,

carbondisulfide and peptidases.

Dangerous reactions: In the case of fire see section 5.

SECTION 11 - Toxicological information

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: No information found
Mutagenicity: No information found
Neurotoxicity: No information found



SECTION 12 - Ecological information

Not available

SECTION - 13 Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

SECTION 14 - Transport information

O.D.T.: This substance is considered non-hazardous for transport. IATA: This substance is considered non-hazardous for air transport.

SECTION 15 - Regulatory information

The product does not contain a hazardous ingredient in an amount that requires identification and labeling according to EC directives.

SECTION 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Abnova shall not be held liable for any damage resulting from handling or from contact with the above product.