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Material Safety Data Sheet

Thiol Detection Assay Kit (Ellman's method)

Revision Number: 2.1

Last updated 10/2/2025

Product and Company Identification

Product Name: Thiol Detection Assay Kit

Catalog Number: TH01DE

Manufacturer/Supplier: Cellspect Co., Ltd.

2-4-23, Kitaiioka, Morioka-shi, Iwate,

020-0857, Japan

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Components

Item NumberNameQuantityTH01DER-A Buffer solution20mL

R-B Chromogen (DTNB) solution 3mL STD N-Acetyl-L-cysteine powder $Vial \times 1$

(as 1.0mM thiol)

Hazards Identification

 $\label{thm:mixture} \mbox{Mixture of the following substances with non-hazardous additions:} \\$

R-A Buffer solution

Tris(hydroxymethyl)aminomethane (CAS#:77-86-1) <2%

R-B Chromogen solution

5,5'-dithiobis(2nitrobenzonic acid) (CAS#:69-78-3) <0.1%

STD Thiol

STD N-Acetyl-L-cysteine (CAS#:616-91-1) >99%

Health Hazard Data: irritant. Irritating to skin, eyes and respiratory system. Harmful if swallowed.

Avoid contact and inhalation. Standard laboratory safety procedures include wearing safety glasses, gloves and protective clothing.

First Aid Measures

If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice.

If inhaled, move individual to fresh air and call physician to seek medical advice.

Fire Fighting Measures

Explosion Hazards: No data available
Flash Point: No data available
Autoignition Temperature: No data available
Flammability(R-A,R-B): No data available

Flammability(Standard): Slightly flammable to flammable in

presence of open flames and

sparks.

Extinguishing media: Water spray, carbon dioxide, dry

chemical powder or appropriate

foam

Firefighting: Wear self-contained breathing

apparatus and protective clothing to prevent with skin and eyes.

Handling and Storage

Keep receptacles tightly sealed.

Store Reagent, Standard in a cool and dark space(2-8°C).

Accidental Release Measures

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

Exposure Controls / Personal Protection

Keep away from foodstuffs and beverages. Wash your hands before and after the work. Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

Stability and Reactivity

Thermal Decomposition : no decomposition if used

according to specifications.

Dangerous Products of Carbon oxides. Carbon dioxide.

Decomposition : Chlorine oxide. Sulfur oxide.

Dangerous Reactions: none

Toxicological Information

Inhalation:Harmful if inhaledIngestion:Harmful if swallowedSkin:Causes skin irritationEyes:Causes eye irritation

Target Organs/ Chronic Exposures: No data available

Ecological Information

Do not allow product to reach ground water, watercourse, or sewage system.

Disposal Considerations

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Consult local, state or national regulations for proper disposal.

Transport Information

This substance is considered to be Non-Hazardous for transport. This substance is considered to be Non-Hazardous for air transport.

Regulatory Information

United Sates Classification and Label Text:
United States Regulatory Information:
SARA Listed:
NO.

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Other Information

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