

# SAFETY DATA SHEET

Cat# BN00639, Thrombin Cleavage Kit

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Thrombin Cleavage Kit  
**PRODUCT CODES:** Cat# BN00639  
**MANUFACTURER:** Assay Genie (brand of Reagent Genie Ltd.)  
**ADDRESS:** G1 The Steelworks, Foley Street, Dublin 1  
**EMERGENCY PHONE:** +353 1 8879802

## SECTION 2: HAZARDS IDENTIFICATION

| Component                | Description         | Volume | Safety Information |
|--------------------------|---------------------|--------|--------------------|
| Thrombin Dilution Buffer | Proprietary Buffer  | 12 ml  | No hazards         |
| Thrombin Cleavage Buffer | Proprietary Buffer  | 12 ml  | No hazards         |
| Thrombin Enzyme          | Contains Thrombin   | 3 ul   | See below          |
| Cleavage Control Protein | Lyophilized protein | n/a    | No hazards         |

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | EC-No.    | Weight |
|-----------|------------|-----------|--------|
| Thrombin  | 9002-04-4  | 232-648-7 | 100%   |

**Thrombin:** **Synonym: Factor IIa**

### Emergency Overview

**OSHA Hazards:** Corrosive: Metals category 1, skin category 1A, eye damage category 1

**Target Organs:** skin, eyes

**GHS Classification:** Skin irritation (Category 2)  
Skin sensitization (Category 1)  
Eye irritation (Category 2A)  
Respiratory Sensitization (Category 1)  
Specific target organ toxicity - single exposure (Category 3), Respiratory system

### GHS Label elements, including precautionary statements

**Pictogram:**



**Signal word:** Danger  
**Hazard statement(s):** H315: Causes skin irritation  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation

**Precautionary statement(s):** P261 Avoid breathing dust/ fume/ gas/ mist/ vapour/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

P362 Take off contaminated clothing and wash before reuse.

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant

**Health hazard:** 2

**Chronic health hazard:** \*

**Flammability:** 0

**Physical hazards:** 0

### NFPA Rating

**Health Hazard:** 2

**Fire:** 0

**Reactivity Hazard:** 0

### Potential Health Effects

**Inhalation:** harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes severe eye irritation.

**Ingestion:** harmful if swallowed.

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## SECTION 4: FIRST AID MEASURES

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**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products not known.

**Further information:** No data available.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## SECTION 7: HANDLING AND STORAGE

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### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Thrombin

#### **Components with workplace control parameters:**

**Contains no substances with occupational exposure limit values.**

#### **Personal protective equipment**

##### **Respiratory protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

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Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

#### For nuisance exposures:

Use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU).

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Property                   | Thrombin            |
|----------------------------|---------------------|
| Appearance:                | Clear liquid        |
| pH:                        | No data available   |
| Water Solubility:          | Completely miscible |
| Other Solubility:          | No data available   |
| Vapor Pressure             | No data available   |
| Vapor Density              | No data available   |
| Flash Point (°C):          | No data available   |
| Ignition Temperature (°C): | No data available   |
| Density:                   | No data available   |

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## SECTION 10: STABILITY AND REACTIVITY

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**Reactivity:** No data available

**Stability:** Stable under recommended storage conditions

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents

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## SECTION 11: TOXICOLOGICAL INFORMATION

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No data available

Additional Information

RTECS: X08950000

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## SECTION 12: ECOLOGICAL INFORMATION

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No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Product:** Observe all federal, state, and local environmental regulations.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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**DOT (US)**

Not dangerous goods

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IMDG

Not dangerous goods

IATA

Not dangerous goods

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## SECTION 15: REGULATORY INFORMATION

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**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

**Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** thrombin CAS-No. 9002-04-4

**New Jersey Right To Know Components:** thrombin CAS-No. 9002-04-4

**California Prop. 65 Components** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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## SECTION 16: OTHER INFORMATION

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### DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Assay Genie shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.