

Safety Data Sheet for Xtreme DNA Kit XME-5/50

Contents

Solution LYS (Lysis buffer)	Details below.
Solution CB (Column Binding Buffer)	Details below.
Solution WB (Wash Buffer)	Low Risk.
Solution EB (Elution Buffer)	Low Risk.
Proteinase K	Details below.
DNA Columns	No Risk.
Collection Tubes	No Risk.

Solution LYS

1. Identification of the substance/mixture and of the company/undertaking:

Product details:

Trade name: Solution LYS

Manufacturer/Supplier: Cell Projects Ltd.

Further Information available from: Cell Projects Ltd., Unit 2 Roebuck Business Park, Ashford Road, Harrietsham, Kent ME17 1AB Tel.: ++44 (0) 1622 763741 Email: info@isohelix.com

2. Hazards identification: Warning

Hazard description:

Skin irritation (Category 2)

Serious eye damage (Category 2B)

Physical hazards: Not hazardous

Hazard statements:

H315 – Causes skin irritation

H318 – Causes serious eye irritation

H335 – May cause respiratory irritation

Precautionary statements:

P280 – Wear protective gloves/eye protection/face protection

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

3. Composition/information on ingredients:

Description: Liquid. Proprietary compound mixture.

Dangerous components: Sodium dodecyl sulphate	CAS No: 151-21-3
Ethylenediaminetetraacetic acid	CAS No: 60-00-4

4. First-aid measures:

After contact with eyes: Rinse thoroughly with plenty of water, also under the eye-lids for at least 15 minutes. Consult a doctor.

After contact with skin: Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and wash before re-use.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Seek medical advice in case of breathing difficulties.

After swallowing: Wash out mouth with water provided person is conscious. Call a Doctor.

5. Fire-fighting measures: Non-flammable.

Suitable extinguishing agents for surrounding fire: CO₂, powder or water spray.

Protective equipment: Do not inhale combustion gases. Wear self-contained breathing apparatus if necessary.

6. Accidental release measures: Use personal protective equipment as detailed in section 8. Ensure adequate ventilation. Soak up with inert absorbent material and dispose of according to regulations.

7. Handling and storage: Avoid contact with eyes and skin. Avoid inhalation of vapour or mist. Wash thoroughly after handling. Keep in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection:

Exposure controls: None listed

Personal Protective equipment:

Eyes: wear appropriate protective safety goggles with side shields.

Skin: wear appropriate protective gloves.

Clothing: wear appropriate protective clothing.

Environmental exposure controls: Prevent from entering the drains.

9. Physical and chemical properties: Physical state: liquid. Colour: colourless. Odour: odourless.
Other properties: N/A

10. Stability and reactivity: The product is stable.
Incompatible materials: oxidising agents.
Hazardous decomposition products: No data available.

11. Toxicological information: Acute toxicity.
Potential health effects:
Eyes – irritating to eyes.
Skin – irritating to skin. May be harmful in contact with skin.
Inhalation – irritating to respiratory system. May be harmful by inhalation.
Ingestion – may be harmful if swallowed.

12. Ecological information: Harmful to aquatic life.

13. Disposal considerations: Dispose of in accordance with local regulations.

14. Transport information: Non-hazardous for transport.

15. Regulatory information:

European/International Regulations: European labelling in accordance with EC Directives:

Hazard Symbol: XN

Risk phrases:

R36/37/38 – irritating to eyes, respiratory system and skin.

Safety phrases:

S24 – avoid contact with skin

S26 – in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 – wear suitable protective clothing, gloves and eye/face protection.

16. Other information: This information is believed to be accurate and represents the best information based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product feature and in no case shall the company be liable for any claims, losses or damages, including lost profits.

Solution CB

1. **Identification of the substance/mixture and of the company/undertaking:**
Product details: Trade name: Solution CB
Manufacturer/Supplier: Cell Projects Ltd.
Further Information available from: Cell Projects Ltd., Unit 2 Roebuck Business Park, Ashford Road, Harrietsham, Kent ME17 1AB
Tel.: ++44 (0) 1622 763741 Email: info@isohelix.com
2. **Hazards identification:**
Hazard description: XN Harmful
R 22 Harmful if swallowed.
R 36/38 Irritating to eyes and skin.
3. **Composition/information on ingredients:**
Description: Liquid. Proprietary compound mixture.
Dangerous components: Guanidinium Chloride CAS No: 50-01-1
Triton X-100 CAS No: 9002-93-1
4. **First-aid measures:**
After contact with eyes: Get medical attention immediately. Immediately flush opened eyes with plenty of water for at least 15 minutes.
After contact with skin: Immediately flush contaminated skin with copious amounts of water.
After inhalation: Remove to fresh air. Seek medical advice in case of breathing difficulties.
After swallowing: Wash out mouth with water provided person is conscious. Call a Doctor.
5. **Fire-fighting measures:** Non-flammable.
Suitable extinguishing agents for surrounding fire: CO₂, powder or water spray.
Protective equipment: Do not inhale combustion gases. Wear self-contained breathing apparatus if necessary.
6. **Accidental release measures:** Use personal protective equipment as detailed in section 8. Ensure adequate ventilation. Prevent seepage into drains. Add absorbent to collect spillage and place into a suitable disposal container.
7. **Handling and storage:** Do not ingest. Avoid contact with eyes and skin. Wash thoroughly after handling. Store in a tightly closed container.
8. **Exposure controls/personal protection:**
Exposure controls: None listed
Personal Protective equipment: Eyes: wear appropriate protective safety goggles.
Skin: wear appropriate protective gloves.
Clothing: wear appropriate protective clothing.
9. **Physical and chemical properties:** Physical state: liquid. Colour: colourless. Odour: faint odor.
Other properties: N/A
10. **Stability and reactivity:** The product is stable.
Incompatible materials: oxidising and reducing agents.
Hazardous decomposition products: halogenated compounds, hydrogen chloride.
11. **Toxicological information:** Chronic effects: Contains material which may cause damage to the following organs: central nervous system, eye lens or cornea.
Irritant effect: Irritating to eyes, skin and mucous membranes.
Sensitisation: No sensitising effects known.
12. **Ecological information:** No known significant effects or critical hazards.
13. **Disposal considerations:** Dispose of in a manner consistent with state and local regulations.
14. **Transport information:** Non-hazardous for transport.
15. **Regulatory information:**
European/International Regulations: European labelling in accordance with EC Directives:
Hazard Symbol: XN
Risk phrases:
R 22 Harmful if swallowed.
R 36/38 Irritating to eyes and skin.
Safety phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36 Wear suitable protective clothing.
S 46 If swallowed, seek medical advice immediately and show this container or label.
Waterhazard class: Water hazard class 1: slightly hazardous for water.
16. **Other information:** This information is believed to be accurate and represents the best information based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product feature and in no case shall the company be liable for any claims, losses or damages, including lost profits.

Proteinase K

1. **Identification of the substance/mixture and of the company/undertaking:**
Product details: Trade name: Proteinase K
Manufacturer/Supplier: Cell Projects Ltd.
Further Information available from: Cell Projects Ltd., Unit 2 Roebuck Business Park, Ashford Road, Harrietsham, Kent ME17 1AB Tel.: ++44 (0) 1622 763741 Email: info@isohelix.com
2. **Hazards identification:**
Hazard description: XN Harmful
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 42 Irritant - may cause sensitisation by inhalation and skin contact.
3. **Composition/information on ingredients:**
Chemical name: Proteinase K
CAS No: 39450-01-6
4. **First-aid measures:**
After contact with eyes: Immediately flush opened eyes with running water for several minutes.
After contact with skin: Immediately wash skin with soap and copious amounts of water.
After inhalation: Remove to fresh air and monitor breathing. If not breathing give artificial respiration. Call a Doctor.
After swallowing: wash out mouth with water provided person is conscious. Call a Doctor.
5. **Fire-fighting measures:**
Suitable extinguishing agents: CO₂, powder or water spray.
Protective equipment: Do not inhale combustion gases. Wear self-contained breathing apparatus if necessary.
6. **Accidental release measures:** Use personal protective equipment as detailed in section 8. Ensure adequate ventilation. Prevent seepage into drains. Pick up without creating dust and place into a suitable disposal container.
7. **Handling and storage:** Ensure adequate ventilation, minimise dust generation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Store in a tightly closed container.
8. **Exposure controls/personal protection:**
Exposure controls: None listed
Personal Protective equipment: Eyes: wear appropriate protective safety goggles.
Skin: wear appropriate protective gloves.
Clothing: wear appropriate protective clothing.
9. **Physical and chemical properties:** Physical state: Solid. Colour: White. Odour: None
Solubility in water: Soluble. Other properties: N/A
10. **Stability and reactivity:** Stable under normal temperatures and pressures.
Incompatible materials: strong oxidising agents. No data available on hazardous decomposition products.
11. **Toxicological information:** Acute toxicity: No data available.
Irritant effect: Irritating to eyes, skin, mucous membranes and respiratory tract.
Sensitisation: May cause sensitisation through inhalation or skin contact.
12. **Ecological information:** Not available.
13. **Disposal considerations:** Dispose of in a manner consistent with state and local regulations.
14. **Transport information:** Non-hazardous for transport.
15. **Regulatory information:**
European/International Regulations: European labelling in accordance with EC Directives:
Hazard Symbol: XN
Risk phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.
R 42/43 May cause sensitisation by inhalation and skin contact.
Safety phrases: S 22 Do not breathe dust
S 24 Avoid contact with skin
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Water hazard class: generally not hazardous for water.
16. **Other information:** This information is believed to be accurate and represents the best information based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product feature and in no case shall the company be liable for any claims, losses or damages, including lost profits.