

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

Triton X-100

CAS No: 50-01-1

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.