

# 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](mailto: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:** CO<sub>2</sub>, 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](mailto: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:** CO<sub>2</sub>, 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](mailto: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:** CO<sub>2</sub>, 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.