

Material Safety Data Sheet (MSDS)

Isohelix Buccal Swab-Mag DNA kit BMG-12 & BMG-50

Version 2.1

Revision date: 04/08/2022

Kit Contents:

BLS Buffer	Low risk – details below
Proteinase K	Details below
Binding Buffer	Low risk – details below
Magnetic Beads	Low risk – details below
Wash Buffer	Low risk – not required
Elution Buffer	Low risk – not required

BLS Solution

1. Identification of the Substance/Mixture and of the Company/Undertaking:

Product name:	BLS Solution
Manufacturer/Supplier:	Cell Projects Ltd.
Substance Use:	DNA Isolation
Further Information available from:	Cell Projects Ltd., Unit 2 Roebuck Business Park, Ashford Road, Harrietsham, Kent ME17 1AB Tel.: ++44 (0) 1622 851177 Email: info@isohelix.com
Emergency Telephone Number:	999 (United Kingdom) 112 (Europe) 911 (US & Canada)

2. Hazards identification:

Classification of the Substance or Mixture:	Not a hazardous substance or mixture.
Label Elements:	Not a hazardous substance or mixture.

3. Composition/information on ingredients:

Substance:	Proprietary mixture.
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4. First-aid measures:

General Advice:	Consult a Doctor/Physician, Show this safety data sheet to the Doctor in attendance.
After Contact with Eyes:	Immediately flush opened eyes with running water for at least 15 minutes. Call a Doctor.
After Contact with Skin:	Immediately wash skin with soap and copious amounts of water. Call a Doctor
After Inhalation:	Remove to fresh air and monitor breathing. If not breathing give artificial respiration. Call a Doctor.
After Swallowing:	Never give anything by mouth to an unconscious person. Wash out mouth with water provided person is conscious. Call a Doctor.

5. Fire-fighting measures:

Suitable Extinguishing agents:	CO ₂ , powder or water spray.
Special Hazards arising from the Substance:	None.
Advice for Firefighters:	Do not inhale combustion gases. Wear self-contained breathing apparatus if necessary.
Flash point:	Not applicable

6. Accidental release measures:

Personal Precautions:	Use personal protective equipment as detailed in Section 8. Ensure adequate ventilation.
Environmental Precautions:	None.
Methods & Materials for Cleaning up:	Soak up with inert absorbent material and dispose of as general waste. Keep in suitable, closed containers for disposal.

7. Handling and storage:

Precautions for safe handling:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.
Conditions for Safe Storage:	Store container in a cool, dry, & well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature.

8. Exposure controls/personal protection:

Control Parameters:	<p>Personal Protective equipment:</p> <p>Eyes: Wear appropriate protective safety goggles.</p> <p>Respiratory: Use only with adequate ventilation. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.</p> <p>Skin: Wear appropriate protective gloves.</p> <p>Clothing: Wear appropriate protective clothing.</p>
Exposure Controls:	None listed.

9. Physical and chemical properties:

Physical state:	Liquid
Colour:	Colourless
Odour:	N/A
Solubility in Water:	N/A
Other properties:	N/A

10. Stability and reactivity:

Reactivity:	N/A
Stability:	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions:	N/A
Conditions to Avoid:	N/A
Incompatible Materials:	Strong oxidising agents.
Hazardous Decomposition Products:	N/A

11. Toxicological information

Information on Toxicological effects:	<p>Acute toxicity: No data available.</p> <p>Irritant effect: No data available.</p> <p>Sensitisation: No data available.</p> <p>Mutagenicity: No data available.</p> <p>Carcinogenicity: No data available.</p> <p>Reproductive Toxicity: No data available.</p> <p>Specific target organ toxicity – Single Exposure: No data available.</p> <p>Specific target organ toxicity – Repeated Exposure: No data available.</p> <p>Aspiration Hazard: No data available.</p>
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Potential Health Effects:	<p>Inhalation: May cause irritation if inhaled. Non-corrosive.</p> <p>Ingestion: May be harmful if swallowed.</p> <p>Skin: May cause irritation to skin. Non-corrosive.</p> <p>Eyes: May cause irritation to eyes. Non-corrosive.</p>
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12. Ecological information:

Not available.

13. Disposal considerations:

Waste Treatment Methods: Dispose of in a manner consistent with state and local regulations.

14. Transport information:

Not classified as dangerous goods and is non-hazardous for transport. Not regulated by IATA. Can be shipped by air, sea, or rail.

15. Regulatory information:

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

16. Other information:

This information is believed to be accurate and represents the best information based on our present knowledge, but does not purport to be all inclusive and shall be used only as a guide. It does not constitute a guarantee or warranty for any specific product feature and in no case shall the Cell Projects Ltd be liable for any claims, losses or damages, including lost profits resulting from handling or contact with the above product.

Proteinase K

1. Identification of the Substance/Mixture and of the Company/Undertaking:

Product name: Proteinase K
 Manufacturer/Supplier: Cell Projects Ltd.
 Substance Use: DNA Isolation
 Further Information available from:
 Cell Projects Ltd.,
 Unit 2 Roebuck Business Park,
 Ashford Road,
 Harrietsham,
 Kent ME17 1AB
 Tel.: ++44 (0) 1622 851177
 Email: info@isohelix.com
 Emergency Telephone Number: 999 (United Kingdom)
 112 (Europe)
 911 (US & Canada)

2. Hazards identification:

Classification of the Substance or Mixture: SKIN IRRITATION (Category 2)
 EYE IRRITATION (Category 2)
 RESPIRATORY SENSITISATION (Category 1)
 SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (Category 3)

Label Elements: WARNING, DANGER



H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

3. Composition/information on ingredients:

Substance: Proteinase K, CAS-No: 39450-01-6, 100% (w/w)

4. First-aid measures:

General Advice: Consult a Doctor/Physician, Show this safety data sheet to the Doctor in attendance.
 After Contact with Eyes: Immediately flush opened eyes with running water for at least 15 minutes. Call a Doctor.
 After Contact with Skin: Immediately wash skin with soap and copious amounts of water. Call a Doctor
 After Inhalation: Remove to fresh air and monitor breathing. If not breathing give artificial respiration. Call a Doctor.
 After Swallowing: Never give anything by mouth to an unconscious person. Wash out mouth with water provided person is conscious. Call a Doctor.

5. Fire-fighting measures:

Suitable Extinguishing agents: CO₂, powder or water spray.
 Special Hazards arising from the Substance: Carbon Oxides
 Advice for Firefighters: Do not inhale combustion gases. Wear self-contained breathing apparatus if necessary.
 Flash point: Not applicable

6. Accidental release measures:

Personal Precautions: Use personal protective equipment as detailed in Section 8. Ensure adequate ventilation.
 Environmental Precautions: Prevent seepage into drains.
 Methods & Materials for Cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and storage:

Precautions for safe handling: Ensure adequate ventilation, minimise dust generation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.
 Conditions for Safe Storage: Store container in a cool, dry, & well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: +4°C - +8°C.

8. Exposure controls/personal protection:

Control Parameters: Personal Protective equipment:
 Eyes: Wear appropriate protective safety goggles.
 Respiratory: Use only with adequate ventilation. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.
 Skin: Wear appropriate protective gloves.
 Clothing: Wear appropriate protective clothing.

Exposure Controls: None listed.

9. Physical and chemical properties:

Physical state: Solid, Powder
 Colour: White
 Odour: None
 Solubility in Water: Soluble
 Other properties: N/A

10. Stability and reactivity:

Reactivity: N/A
 Stability: Stable under normal temperatures and pressures.
 Possibility of Hazardous Reactions: N/A
 Conditions to Avoid: N/A
 Incompatible Materials: Strong oxidising agents.
 Hazardous Decomposition Products: N/A

11. Toxicological information

Information on Toxicological effects:

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.
Mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive Toxicity: No data available.
Specific target organ toxicity – Single Exposure: See Section 2.
Specific target organ toxicity – Repeated Exposure: No data available.
Aspiration Hazard: No data available.

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes serious eye irritation.

12. Ecological information:

Not available.

13. Disposal considerations:

Waste Treatment Methods: Dispose of in a manner consistent with state and local regulations.

14. Transport information:

Not classified as dangerous goods and is non-hazardous for transport. Not regulated by IATA. Can be shipped by air, sea, or rail.

15. Regulatory information:

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008

16. Other information:

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Binding Buffer

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

Product name:	Binding buffer
Manufacturer/Supplier:	Cell Projects Ltd.
Substance Use:	DNA Isolation
Further Information available from:	Cell Projects Ltd., Unit 2 Roebuck Business Park, Ashford Road, Harrietsham, Kent ME17 1AB Tel.: ++44 (0) 1622 851177 Email: info@isohelix.com
Emergency Telephone Number:	999 (United Kingdom) 112 (Europe) 911 (US & Canada)

2. Hazards identification:

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Not a hazardous substance or mixture according EC directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients:

Description: Liquid. Proprietary compound mixture.

4. First-aid measures:

General Advice:	Consult a Doctor/Physician, Show this safety data sheet to the Doctor in attendance.
After Contact with Eyes:	Check for and remove any contact lenses. In case of contact, flush eyes with plenty of water for 15 minutes. Get medical attention if irritation occurs.
After Contact with Skin:	Immediately wash skin with soap and copious amounts of water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms appear.

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: No data available.

Potential health effects:

Eyes – may be irritating to eyes with susceptible persons. Non-corrosive for the eyes.

Skin – may be slightly irritating to skin. Non-corrosive for the skin.

Inhalation – may be irritating to respiratory system. Non-corrosive for lungs.

Ingestion – may be harmful if swallowed.

12. Ecological information: No data available.

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

14. Transport information:

Not classified as dangerous goods and is non-hazardous for transport. Not regulated by IATA. Can be shipped by air, sea, or rail.

15. Regulatory information:

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

Hazard Symbol: none

Non-hazardous mixture

16. Other information:

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Magnetic Beads

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

Product details:

Trade name: Magnetic Beads
Manufacturer/Supplier: Cell Projects Ltd.
Substance Use: DNA Isolation

Further Information available from: Cell Projects Ltd.,
Unit 2 Roebuck Business Park,
Ashford Road,
Harrietsham,
Kent ME17 1AB
Tel.: ++44 (0) 1622 851177
Email: info@isohelix.com

Emergency Telephone Number: 999 (United Kingdom)
112 (Europe)
911 (US & Canada)

2. Hazards identification:

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Not a hazardous substance or mixture according EC directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients:

No components need to be disclosed according to the applicable regulations.

4. First-aid measures:

After contact with eyes: Check for and remove any contact lenses. In case of contact, flush eyes with plenty of water for 15 minutes. Get medical attention if irritation occurs.

After contact with skin: Wash off immediately with plenty of water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms appear.

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. Odour: no data available.
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: No data available
Potential health effects: No data available
Eyes: No data available
Skin: No data available
Inhalation: No data available
Ingestion: No data available
- 12. Ecological information:** No data available.
- 13. Disposal considerations:** Dispose of in accordance with local regulations.
- 14. Transport information:** Not classified as dangerous goods and is non-hazardous for transport. Not regulated by IATA. Can be shipped by air, sea, or rail.
- 15. Regulatory information:**
European/International Regulations: European labelling in accordance with EC Directives.
Hazard Symbol: none
Non-hazardous mixture
- 16. Other information:**
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