

SAFETY DATA SHEET

VERSION 5.0 | REVISED: 2026-09-22

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

- 1.1 Product Name:** Enzyme-Linked Immunosorbent Assay Kit
1.2 Catalog Number: EKC ELISA Kit Series
1.3 Recommended Use: For Laboratory Research Use Only. Not for human or animal therapeutic or clinical diagnostic use.
1.4 Company Identification: Biomatik Corporation, 4 Third Ave, Kitchener, Ontario, N2C 1N6, Canada
1.5 Contact Telephone / Email: 1-519-489-7195 | Email: info@biomatik.com
1.6 Emergency Telephone Number: 1-519-590-7717

2. HAZARDS IDENTIFICATION

- 2.1 Emergency Overview:** Not expected to produce significant adverse health effects when the recommended instructions for use are followed. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin, and clothing.
2.2 Potential Acute Health Effects: No known significant effects or critical hazards across inhalation, ingestion, skin contact, or eye contact.
2.3 Potential Chronic Health Effects: No known significant effects or critical hazards regarding carcinogenicity, mutagenicity, teratogenicity, developmental effects, or chronic toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The kit consists of non-hazardous liquid reagents and coated microwells. Component package quantities are detailed below:

Reagents / Kit Components	Package Quantity / Volume
Assay plate	1 (96 wells)
Standard	6 x 1 ml
Conjugate	1 x 6 ml
HRP-avidin	1 x 6 ml
Wash Buffer (20 x concentrate)	1 x 15 ml
Substrate A	1 x 7 ml
Substrate B	1 x 7 ml
Stop Solution (contains 2N sulfuric acid)	1 x 7 ml
Adhesive Strip (For 96 wells)	4 strips
Instruction manual	1 copy

4. FIRST AID MEASURES

Ingestion: If any component of this kit is swallowed, wash out the mouth with water, provided the person is conscious. Call a physician or poison control.

Skin Contact: If any component contacts the skin, flush with copious amounts of water and wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.

Inhalation: If inhaled, move to fresh air. If breathing becomes difficult, give oxygen. If breathing stops, administer artificial respiration. Call a physician.

Eye Contact: If any component contacts the eyes, flush with copious amounts of water for at least 15 minutes. Check for and remove contact lenses. Assure adequate flushing by separating the eyelids. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

5.1 Firefighting Guidance: None of the components of this kit pose a significant risk in case of fire. Firefighting media should be selected to suit other materials involved in the fire. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to limit their exposure.

6. ACCIDENTAL RELEASE MEASURES

6.1 Overview: Use appropriate protective equipment and methods to clean up spilled substances promptly. Collect and dispose of all waste in accordance with applicable laws.

6.2 Personal Precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

6.3 Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

6.4 Clean-Up Methods: Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose via a licensed waste disposal contractor. Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

7.1 Handling & Storage Guidelines: This kit should be stored as recommended on the product label. All components should be kept in tightly closed containers. Refer to the storage section of the kit insert for further information. This kit should only be handled and used by qualified, trained professionals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters: Consult local authorities about acceptable exposure limits. Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the necessity to use respiratory protective equipment.

8.2 Engineering Measures: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below any recommended or statutory limits.

- **Eye / Face Protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mist, gases, or dust.
- **Skin & Body Protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed.
- **Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels.
- **Hygiene Measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory. Remove and wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Physical State	Liquid (except coated microwells)	Flash Point	Not applicable
Color	Clear (liquid reagents)	Flammability	Not Flammable
Odor	None detectable	Auto-flammability	Will not occur
pH	5-10 (Stop Solution: 2N H ₂ SO ₄)	Vapor Pressure	Not applicable
Boiling Point	Not applicable	Relative Density	1 - 10 mg/ml
Melting Point	Not applicable	Water Solubility	100% soluble

10. STABILITY AND REACTIVITY

10.1 Stability and Reactivity: The product is stable under recommended conditions.

10.2 Conditions to Avoid: Not available.

10.3 Materials to Avoid: Not available.

10.4 Hazardous Decomposition Products: Not available.

11. TOXICOLOGICAL INFORMATION

11.1 Chronic Toxic Effects: Chronic effects: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Teratogenicity: No known significant effects or critical hazards. Developmental effects: No known significant effects or critical hazards. Fertility effects: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Data not yet available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods: Consult local, state, or national regulations for proper disposal.

14. TRANSPORT INFORMATION

Overland Transportation (ADR/RID): Not restricted.

Transatlantic Transportation (IMDG): Not restricted.

Air Transportation (ICAO/IATA): Not restricted.

UN Number: N/A

15. REGULATORY INFORMATION

15.1 Canada Regional Lists:

• **Canadian Inventories & Lists:** CEPA Toxic substances, ARET, NPRI, Alberta, Ontario, and Quebec Designated Substances: None of the components are listed. WHMIS (Canada): Not controlled under WHMIS (Canada). Canada inventory: All components are listed or exempted.

15.2 US Federal and State Regulations:

• **US Regulations:** TSCA, SARA 313, SARA 311/312 Hazards, CERCLA RQ, California Proposition 65: Not applicable.

16. OTHER INFORMATION

16.1 Intended Use Notice: This material is sold for in vitro use or research purposes only. It is not for any human or animal therapeutic or clinical diagnostic use.

16.2 Disclaimer: Read the instructions for use before using the product. Observe general safety regulations when handling chemicals. Good laboratory practice is the best preventive measure to avoid hazards. The information shall not be taken as being all-inclusive and is to be used only as a guide. All materials and mixtures may contain unknown hazards and should be used with caution. Since our corporation cannot control the actual methods, volumes, or conditions of use, Biomatik Corporation shall not be held liable for any damages or losses resulting from handling or from contact with the product as described herein. This information is prepared based on our present knowledge but shall not constitute a guarantee for any specific product features.

End of Safety Data Sheet