

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

**Product Name:** Enzyme-Linked Immunosorbent Assay Kit  
**Catalog Number:** EKC  
**Recommended Use:** For Laboratory Research Use Only.

**Company:** Biomatik Corporation  
4 Third Ave Kitchener, Ontario, N2C 1N6, Canada

**Emergency Phone Number:** 1-519-590-7717  
**Company Phone Number:** 1-519-489-7195  
**Email:** info@biomatik.com

**2. HAZARDS IDENTIFICATION**

**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.

**Potential acute health effects**

**Eyes:** No known significant effects or critical hazards.

**Skin:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Potential chronic health effects**

**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.

**Chronic effects:** No known significant effects or critical hazards.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Reagents	Quantity
Assay plate (12 x 8 coated Microwells)	1(96 wells)
Standard (Freeze dried)	2
Biotin-antibody (100 x concentrate)	1 x 120 µl
HRP-avidin (100 x concentrate)	1 x 120 µl
Biotin-antibody Diluent	1 x 15 ml
HRP-avidin Diluent	1 x 15 ml
Sample Diluent	1 x 50 ml
Wash Buffer (25 x concentrate)	1 x 20 ml
TMB Substrate	1 x 10 ml
Stop Solution	1 x 10 ml
Adhesive Strip (For 96 wells)	4
Instruction manual	1

## 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 of this contact 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 any component of this kit is 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 of this contact 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

None of the components of this kit poses 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

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

**Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate the 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).

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

**Large spill:** Move containers from the spill area. Approach release from upwind. Preventing entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place it in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**Small spill:** Move containers from the spill area. Vacuum or sweep up material and place it in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

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 future information. This kit should only be handled and used by qualified, trained professionals.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**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 the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**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.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection**

**Respiratory:** 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, the hazards of the product, and the safe working limits of the selected respirator.

**Eyes:** 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:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved, and should be approved by a specialist before handling this product.

**Hands:** 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.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Europe**

**No exposure limit value is known.**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Liquid except for the coated microwells.

**Color:** Clear for all other liquid reagents.

**Odor:** None detectable.

**pH:** 5 – 10 for all components except Stop Solution (4N sulfuric acid)

**Boiling Point:** Not applicable.

**Melting Point:** Not applicable.

**Flash Point:** Not applicable.

**Flammability:** Not Flammable.

**Auto flammability:** Will not occur.

**Vapor Pressure:** Not applicable.

**Relative Density:** 1-10 mg/ml

**Water Solubility:** 100% soluble.

## 10. STABILITY AND REACTIVITY

**Stability and Reactivity:** The product is stable

**Conditions to avoid:** Not available

**Materials to avoid:** Not available

**Hazardous Decomposition products:** Not available

## 11. TOXICOLOGICAL INFORMATION

**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

Data not yet available

## 13. DISPOSAL CONSIDERATIONS

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

**Canada**

**Canadian lists :**

**CEPA Toxic substances:** None of the components are listed.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** None of the components are listed.

**Alberta Designated Substances:** None of the components are listed.

**Ontario Designated Substances:** None of the components are listed.

**Quebec Designated Substances:** None of the components are listed.

**WHMIS (Canada).** Not controlled under WHMIS (Canada)

**Canada inventory:** Canada inventory: All components are listed or exempted.

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

**US Federal and State Regulations**

**Toxic Substances Control Act:** Not applicable

**SARA 313 Components:** Not applicable

**SARA 311/312 Hazards:** Not applicable

**CERCLA Reportable Quantity:** Not applicable

**California Proposition 65:** Not applicable

## 16. OTHER INFORMATION

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. Read the instructions for use before using the product. Observe the 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, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. This information is prepared based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**End of MSDS**