

## MATERIAL SAFETY DATA SHEET

### Section 1 - PRODUCT AND MANUFACTURER IDENTIFICATION

PRODUCT GROUP: ELISA Kits  
PRODUCT IDENTITY: Anti-Human (1-34) Antibody ELISA  
PART NUMBER: 60-4000  
MANUFACTURER ADDRESS: Immutopics, Inc.  
929 Calle Negocio, Suite A  
San Clemente, CA 92673  
Tel: (949)366-4820  
Fax: (949)366-4830  
info@immutopics.com

Telephone Number in Case of Emergency: (800)681-6665 (USA & Canada)

### Section 2 - COMPOSITION AND INGREDIENT INFORMATION

Hazardous Substances in the Preparation:

Chemical	CAS#	Designation	% w/w
Sulfuric Acid (1 M)	7664-93-9	Corrosive	5.3%
Blood Components	N/A	Potential Biohazard	< 1%
Polyoxyethylenesorbitan Monlaurate (Tween 20)	9005-64-5	Irritant	1.0%
Ciprofloxacin Hydrochloride	85721-33-1	Potential Drug Allergen	< 0.1%
Substrate Ingredient 1	N/A	Irritant	N/A
Substrate Ingredient 2	N/A	Irritant	N/A

### Section 3 - HAZARDS IDENTIFICATION

Potential Biohazard:

Handle assay reagents as if capable of transmitting an infectious agent.

Standards and controls are formulated from human source material. This human source material has been tested by an FDA approved method for the presence of antibodies to Human Immunodeficiency Virus (HIV I and HIV II) and to Hepatitis C virus (HCV), as well as for Hepatitis B surface antigen (HBsAg) and found to be negative. Because no test method can offer complete assurance that HIV I and HIV II, HCV, HBsAg or other infectious agents are absent, these reagents should be handled at the Biosafety Level 2 as recommended for any potentially infectious human urine, serum or blood specimen in the Centers for Disease Control/National Institutes of Health Manual "Biosafety in Microbiological and Biomedical Laboratories," 1993.

Biochemicals:

All animal serum products used in kit components are derived from animals of US origin and processed in USDA licensed facilities.

# Immutopics

Form: AB34MSDS  
Effective Date: 07/01/07  
Page: 2 of 4

## Potential Chemical Hazard:

ELISA Wash Concentrate contains Ciprofloxacin HCl. Keep from personnel who have demonstrated sensitivity to Quinoline based drug products. ELISA HRP Substrate contains chemicals deemed to be proprietary by its manufacturer (Neogen Corp. Lexington, KY, [www.neogen.com](http://www.neogen.com)) Based on laboratory animal data, upon chronic overexposure these chemicals may cause reproductive disorders. Females who are or may be pregnant should avoid contact with both of these products.

Avoid contact with ELISA Substrate and ELISA Stop Solution. Both contain materials which are an irritant to the skin and mucous membranes. In case of contact with any of these reagents, wash thoroughly with water.

## Section 4 - FIRST AID MEASURES

Skin Contact:	Remove contaminated clothing and thoroughly wash the exposed skin area with soap and water. If warranted, seek medical attention.
Eye Contact:	Flush with copious amounts of water for at least 15 minutes. Seek medical attention.
Inhalation:	Move to fresh air; give oxygen if breathing becomes difficult. Seek medical attention.
Ingestion:	Provided the person is conscious flush mouth with copious amounts of water. Do not swallow rinse water. Seek medical attention.

## Section 5 - FIRE AND EXPLOSION MEASURES

Suitable Extinguishing Media:	Chemical or water fire extinguisher
Extinguishing Media Not to be Used:	None known.
Special Fire Fighting Procedures:	None known.
Unusual Fire and Explosion Hazards:	None known.

## Section 6 - ACCIDENTAL SPILL MEASURES

Body Precautions:	Wear respirator, safety goggles, gloves, impermeable shoe covers and laboratory coat.
Environmental Precautions:	Contain the spill to the smallest area possible.
Cleaning Measures:	Take care not to contaminate body. Neutralize a Stop Solution spill with dilute base then absorb the material with disposable towels. Soak a standard and/or control spill area with 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

## Section 7 - HANDLING AND STORAGE

Handling:	Wear suitable personal protective equipment. Take care not to splash, spill or splatter any of the components.
Storage:	Store the required kit components at 2 - 8° C and where appropriate in refrigerators designated to contain human blood products.

# Immutopics

Form: AB34MSDS  
Effective Date: 07/01/07  
Page: 3 of 4

## Section 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Hand Protection: Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves.  
Change gloves when they become contaminated.  
Eye Protection: Wear safety glasses or goggles.  
Body Protection: Wear laboratory coat.  
Respiratory Protection: Wear government approved respirator.  
Other: Avoid hand/mouth contact. Wash hands as soon as possible after handling reagents or specimens.

## Section 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical State: Liquid except for Standards (6 vials) and Controls (2 vials) which are lyophilized and the coated microwells.  
pH: 5.5 - 7.4 for all components except Stop Solution at < 2 (highly acidic)  
Boiling Point: Not applicable.  
Melting Point: Not applicable.  
Flash Point: Not applicable.  
Flammability: Not Flammable.  
Vapor Pressure: Not applicable.  
Water Solubility: 100% soluble.

## Section 10 - STABILITY AND REACTIVITY

Stability: Stable under storage conditions described in the package insert.  
Conditions to Avoid: None known.  
Materials to Avoid: None known.  
Hazardous Decomposition Products: None known.

## Section 11 - TOXICOLOGICAL INFORMATION

Effects of Hazardous Substances at the Concentrations Present in the Preparation:

Toxic Effects: Potential Biohazard  
Harmful Effects: Irritant to eyes, skin, mucous membranes and respiratory tract.  
Sensitizing Effects: None known.  
Carcinogenic/Mutagenic/Teratogenic Effects: Contains a possible teratogen.

## Section 12 - ECOLOGICAL INFORMATION

None known.

## Section 13 - DISPOSAL CONSIDERATIONS

Disposal of Preparation: Dispose according to current regional and national regulations.  
Contaminated Containers: Dispose according to current regulations.

# Immutopics

Form: AB34MSDS  
Effective Date: 07/01/07  
Page: 4 of 4

<b>Section 14 -</b>	<b>TRANSPORT INFORMATION</b>
---------------------	------------------------------

Dept. of Transportation DOT:	Not restricted.
Road/Railway Haulage ADR/RID:	Not restricted.
Sea Freight IMO (IMDG):	Not restricted.
Air Freight IATA (ICAO):	Not restricted.
UN Number:	Not applicable.

<b>Section 15 -</b>	<b>OTHER REGULATORY INFORMATION</b>
---------------------	-------------------------------------

Pursuant to U.S. OSHA regulations and the EEC Directive number 88/379, the only hazardous ingredients associated with this product are those listed in Section 2 above.

<b>Section 16 -</b>	<b>OTHER INFORMATION</b>
---------------------	--------------------------

Recommended Use: For Research Use Only. Not for use on or in humans and animals.

The information contained herein is not meant to be all inclusive and should only be used as a guide. It is believed to be correct as of the date of issue but is provided without warranty of any kind. Immutopics, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. The recipient is responsible for observing any applicable laws and regulations. The user should determine the suitability of this information for their intended use of the product and adopt appropriate safety precautions.