

MATERIAL SAFETY DATA SHEET

Product Name:	Sedia™ HIV-1 LAg-Avidity EIA
Catalog Number:	1002
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The Sedia™ HIV-1 LAg-Avidity EIA is comprised of two subunits:

Part No. 3029: Refrigerator Pack

Part No. 3030: Freezer Pack

The hazardous materials present in the kit components of each subunit will be addressed separately.

A summary of all hazardous materials is presented starting on page 6.

Part No. 3029: Refrigerator Pack

<u>Part No.</u>	<u>Components</u>	<u>Quantity</u>
3033	HIV-1 rIDR-M Coated Microwell Plates	2 Plates
3001	10x Wash Buffer Conc.	2 x 100 mL
3031	Sample Diluent	175 mL
3032	Dissociation Buffer	55 mL
3003	TMB Substrate	27 mL
3004	Stop Solution	27 mL
6039	Product Insert	1 Insert
8015	Plate Sealers	1 Pack

Part No. 3030: Freezer Pack

<u>Part No.</u>	<u>Components</u>	<u>Quantity</u>
3037	Negative Control	100µL
3036	Calibrator	100µL
3035	Low Positive Control	100µL
3034	High Positive Control	100µL
3038	Goat Anti-Human IgG HRP (1000x)	50µL

Hazardous substances:**I. Albumin, Bovine, Fraction V**

CAS #: 9048-46-8

Found in: PN 3038

Hazardous Overview:

Bovine Serum Albumin can be a mild irritant. Avoid inhalation, contact with eyes, skin and clothing.

Emergency and First Aid Procedures:

Ingestion: Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Wash exposed area with soap and copious amounts of water.

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Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: Remove to fresh air. If breathing is difficult, call a physician.

HMIS Rating:

Health: 0 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 0 Flammability: 0 Reactivity: 0

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammability: N/A

Extinguishing Media: Suitable: Water Spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Unusual Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Can emit toxic fumes under fire conditions.

Precautions of Safe Handling and Use:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

II. 2-Methyl-4-Isothiazolin-3-One

CAS #: 2682-20-4

Found in: PN 3001, PN 3031, PN 3032, PN 3034, PN 3035, PN 3036, PN 3037, PN 3038

Percent as used in components: Contains <0.1%

Emergency Overview:

In concentrated form of 9.5%, this compound is: corrosive, causes burns, and may cause sensitization by skin contact. At this very dilute formulation of <0.1% in volumes provided in this product, hazards are greatly reduced. The information presented below is for the concentrated form.

HMIS Rating:

Health: 3 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 3 Flammability: 0 Reactivity: 0

Emergency and First Aid Procedures:

Ingestion: Do not induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Flush with copious amounts of water. Remove contaminated clothing and shoes. Call physician if burning occurs.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, obtain medical attention.

Stability:

Stable. Avoid strong oxidizing and reducing agents, amines, mercaptans.

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CAS #: 54827-17-7

Found in: PN 3003

Hazardous Overview:

Tetramethylbenzidine is a non-carcinogenic analog of Benzedine and has mild oxidizing agent properties. Avoid contact with skin, eyes, inhalation, and ingestion.

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Special Procedure: None Special

Unusual Fire Fighting Procedures: None Special

Reactivity Data:

Stability: This product is stable.

Conditions to avoid: Protect from direct UV light, avoid elevated temperatures

Incompatibility: Strong oxidizing agents, metals

Hazardous Polymerization: Will not occur

Hazardous Decomposition: None Known

Health Hazard Data:

Routes of Entry: Avoid contact with skin; avoid ingestion.

Health Hazards: Toxicological properties have not been thoroughly investigated.

Signs and Symptoms of Exposure: Not known at this time.

Emergency and First Aid Procedures:

Ingestion: Induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Wash exposed area with soap and copious amounts of water. Remove contaminated clothing and shoes and wash before reuse.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, call a physician to obtain medical attention.

Precautions of Safe Handling and Use:

Released or Spilled Material: Cover with absorbent material provided in spill kit.

Waste Disposal Method: Normal disposal with copious amounts of water; observe all federal, state, and local environmental regulations.

IV. 1N H₂SO₄ (1N Sulfuric Acid)

CAS #: 7664-93-9

Found in: PN 3004

Concentration as used in component: 1 Normal

Hazardous Overview:

In its concentrated form, Sulfuric Acid is corrosive, reactive, and causes burns. The material provided in the Sedia™ HIV-1 LAg-Avidity EIA is significantly diluted and thus hazards are reduced. The information presented below is for the concentrated form.

HMIS Rating:

Health: 3

Flammability: 0

Reactivity: 2

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NFPA Rating:

Health: 3

Flammability: 0

Reactivity: 2

Emergency and First Aid Procedures:

Ingestion: Do not induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Flush exposed area with copious amounts of water. Remove contaminated clothing and shoes and wash before reuse. Call a physician if burning occurs.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, call a physician to obtain medical attention.

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Unsuitable: Do not use water.

Unusual Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Can emit toxic fumes under fire conditions.

Precautions of Safe Handling and Use:

Released or Spilled Material: Cover with dry lime or soda ash. Ventilate area and wash spill site after material pickup is complete.

V. Human Serum

CAS#: N/A

Found in: PN 3034, PN 3035, PN 3036, PN 3037

Emergency Overview:

All human serum used in the product has been determined to be free of the presence of hepatitis B and C, and has been heat inactivated to render any HIV virus not viable. However, universal precautions should always be followed when working with any body fluid. Avoid contact with skin, mouth, and eyes. Wear gloves, safety glasses, and appropriate PPE.

Emergency and First Aid Procedures:

Ingestion: Induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Wash exposed area with soap and copious amounts of water. Remove contaminated clothing and shoes.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: No fume inhalation hazard.

MATERIAL SAFETY DATA SHEET**VI. Citrate Buffer Solution, pH 3.0**

CAS #: N/A
Found in: PN 3032
Concentration as used in component: 0.1 Molar

Hazardous Overview:

Citrate Buffer is a mild corrosive.

HMIS Rating:

Health: 3 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 3 Flammability: 0 Reactivity: 0

Emergency and First Aid Procedures:

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Wash contaminated clothing before reuse.

Contact with Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Unusual Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Can emit toxic fumes under fire conditions.

Precautions of Safe Handling and Use:

Released or Spilled Material: Cover with dry lime or soda ash. Ventilate area and wash spill site after material pickup is complete.

VII. Bromonitrodioxane

CAS #: 30007-47-7
Found in: PN 3038
Concentration as used in component: Contains <0.01%

Hazardous Overview:

In its concentrated form, Bromonitrodioxane is toxic and an irritant. The material provided in the Sedia™ HIV-1 LAg-Avidity EIA is significantly diluted and thus hazards are reduced in the volumes provided in this product. The information presented below is for the concentrated form.

HMIS Rating:

Health: 2 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 2 Flammability: 0 Reactivity: 0

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Acute Toxicity:
LD₅₀ Oral – rat – 455 mg/kg
Inhalation – not determined
Dermal – not determined

Emergency and First Aid Procedures:

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Wash contaminated clothing before reuse.

Contact with Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Unusual Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Precautions of Safe Handling and Use:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Summary of Hazardous Materials

Part No. 3012	Refrigerator Pack	Hazardous Material
PN 3033	HIV-1 rIDR-M Coated Microwell Plates	None
PN 3001	10x Wash Buffer Conc.	II
PN 3031	Sample Diluent	II
PN 3032	Dissociation Buffer	II, VI
PN 3003	TMB Substrate	III
PN 3004	Stop Solution	IV
PN 6039	Product Insert	None
PN 8015	Plate Sealers	None
Part No. 3013	Freezer Pack	
PN 3037	Negative Control	II, V
PN 3036	Calibrator	II, V
PN 3035	Low Positive Control	II, V
PN 3034	High Positive Control	II, V
PN 3038	Goat Anti-Human IgG HRP (1000x)	I, II, VII

General Notes:

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- Any material/component not described in this document is not considered to be hazardous as it is currently formulated for the Incidence EIA. This is based on evaluations made by Sedia Biosciences Corporation or the Manufacturer/Supplier of the subcomponent under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- It is advised that appropriate Personal Protection Equipment be employed at all times during the use of the Sedia™ HIV-1 LAg-Avidity EIA. This includes the use safely glasses or goggles, biohazard shield or hoods, lab coats or gowns, and gloves. It is also advised that GLP/GMP and proper training be followed to further minimize the risk of accident and exposure.
- Disclaimer: The information described in this document was prepared and presented with reasonable care and is based on the most reliable information available to the authors. Sedia Biosciences makes no warranty, expressed or implied, of the merchantability, fitness, accuracy, or completeness of this information.

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