

## Material Safety Data Sheet

### West Nile IgG ELISA

#### 1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME

**Catalog No:** 8400-25  
**Synonyms:** N/A  
**Intended Use:** Laboratory Use  
**Formula:** N/A  
**Molecular Weight:** N/A

#### 2. COMPOSITION of the kit COMPONENTS

Component	CAS #	SARA
1. <b>Ready-to-use Coated Microtiter Strips for WN IgG</b> West Nile IgG antibody		
2. <b>Sample Dilution Buffer for WN IgG, pH 7.4</b> Tris-HCl buffer, aqueous Goat Serum Milk Thimerosal (0.008%)	1185-53-1	No
3. <b>Human IgM Positive Control (IgG P)</b> Heat-inactivated positive serum for WN IgG Thimerosal (0.01%) <i>Biohazardous</i>	54-64-8	Yes
4. <b>Human IgG Negative Control (IgG N)</b> Heat-inactivated negative serum for WN IgG <i>Biohazardous</i>		
5. <b>10X Wash Buffer, pH 6.7-7.1</b> Phosphate buffered saline (10X), aqueous Tween 20 (1.0%)	9005-64-5	No
6. <b>EnWash, pH 7.2-7.6</b> Phosphate buffered saline, aqueous Tween 20 ( $\leq 0.05\%$ )	9005-64-5	No
7. <b>Ready to Use Enzyme Conjugate-HRP for WN IgG, pH 7.4</b> Goat anti-human IgG with horseradish peroxidase Tris-HCl buffer Goat serum Milk Thimerosal (0.008%)	1185-53-1  54-64-8	No  Yes
8. <b>Liquid TMB Substrate, pH 3.3-3.8</b> 3,3',5,5'-Tetramethylbenzidine ( $\leq 0.05\%$ ), aqueous Hydrogen peroxide ( $\leq 0.05\%$ ) Citric-acid citrate buffer	54827-17-7 7722-84-1	No No
9. <b>Stop Solution</b> Sulfuric Acid, 1N, aqueous <i>Corrosive</i>	7664-93-9	No

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

Additional Toxicity information is Section 11.

#### Potential Health Effects (Acute and Chronic)

**Inhalation:** May be irritating to mucous membranes and respiratory tract. May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** May be irritating to skin. Sulfuric acid causes severe burns.

**Eye Contact:** May be irritating to eyes. Sulfuric acid causes severe burns.

**Aggravated Medical Conditions by Exposure:** No information found.

**Carcinogenicity:** High levels of exposure to sulfuric acid mists and mercury compounds have shown carcinogenic effects.

**Sensitization:** No information found.

### 4. FIRST AID MEASURES

#### Emergency First Aid

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Inhalation Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion Wash out mouth with water provided person is conscious; get immediate medical attention.

Skin Immediately flush thoroughly with large amounts of water. Remove contaminated clothing and wash before reuse. Seek medical attention.

Eyes Immediately flush thoroughly with water for at least 15 minutes. Seek medical attention.

### 5. Fire Fighting Measures

**Extinguishing Media** Use dry chemical powder.

**Fire Fighting Procedures** Wear self-contained breathing apparatus and protective clothing.

**Fire & Explosion Hazards** Emits toxic fumes under fire conditions.

### 6. Accidental Release Measures

#### Spill Response

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Contain the release and eliminate its source, if this can be done without risk. Spill material should be disposed of accordingly (see Section 12). Comply with all Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

### 7. Handling and Storage

#### Handling

Avoid inhalation and contact with skin, eyes, and clothing. Avoid prolonged and repeated exposure. Components containing human serum must be treated as biohazardous and handled following Universal Precautions.

#### Storage

Keep container tightly closed and protected against physical damage. Store under appropriate conditions away from incompatible chemicals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Safety Equipment

Safety showers and eye wash station.

### Personal Protective Equipment

Engineering and/or administrative controls should be implemented to reduce exposure. Protective gloves must be worn to prevent skin contact. Safety glasses with side shields must be worn at all times. Impervious protective clothing should be worn to prevent skin contact.

### Work and Hygiene Practices

Wash thoroughly after handling. Wash contaminated clothing before reuse.

#### Exposure Guidelines

##### OSHA - PEL:

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Hydrogen Peroxide	1						
Mercury		0.01					
Sulfuric Acid		1					

##### ACGIH - TLV:

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Mercury		0.1					X

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

## 9. Physical/ Chemical Properties

**Boiling Point (C 760 mmHg)** N/A

**Melting Point (C)** N/A

**Specific Gravity (H<sub>2</sub>O = 1)** N/A

**pH** See Section 2.

**Flash Point (F)** N/A

**Flammable Limits LEL (%)** N/A

**Flammable Limits UEL (%)** N/A

**Vapor Pressure (mm Hg)** N/A

**Percent Volatile by vol (%)** N/A

**Vapor Density (Air = 1)** N/A

**Evaporation Rate (BuAc = 1)** N/A

**Solubility in Water** N/A

**Appearance** N/A

N/A = Not Available

**10. Stability and Reactivity**

**Stability**

Stable: Stable

Incompatibles: Strong oxidizing agents, bases, brass, iron, finely powdered metals

Conditions to Avoid: Incompatibles

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Hazardous Decomposition**

Carbon dioxide, Carbon monoxide, Sulfur oxide, Hydrogen sulfide, Mercury, Mercury oxides, Nitrogen oxides

**11. Toxicological Information**

**Oral Rat LD50** N/A

**Inhalation Rat LD50** N/A

**Skin Rabbit LD50** N/A

**12. Ecological Information**

No data available.

**13 Disposal Consideration**

Contact a licensed professional waste disposal company for disposal of this material. Precious metals should be recovered. Observe all federal, state, and local environmental regulations.

**14 Transport Information**

**DOT**

Proper Shipping Name: None

This substance is considered non-hazardous for transport.

**IATA**

Proper Shipping Name: None

This substance is considered non-hazardous for transport.

Component	SARA TPQ (lbs)	SARA DeMininis (%)	CERCLA RQ (lbs)
Mercury compound	10	No Exemption	1
Sulfuric Acid			1000

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

**15. Other Information**

**Comments**

None

### **NFPA Hazard Ratings**

Health N/A

Flammability N/A

Reactivity N/A

Special Hazards N/A

N/A = Not Available

N/E = None Established

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### **Quality Control**

Diagnostic Automation/Cortez Diagnostics INC.

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