

## 1. Product & Company Information

**Manufacturer** InBios  
562 First Ave. South, Ste. 600  
Seattle, WA 98104 USA

**Information Phone Number:** 206-344-5821  
**Hours:** Mon. to Fri. 8:30-5  
**Emergency Number:** 206-344-5821

**Catalog Number(s)** WNMS-1  
**Product Name** West Nile Detect™ IgM Capture ELISA  
**Synonyms** N/A  
**Formula** N/A  
**Molecular Weight** N/A

## 2. Composition / Information on Ingredients

Component	CAS #	SARA
<b>1. Coated Microtiter Strips for WN Human IgM</b> Goat anti-human IgM antibody		
<b>2. Sample Dilution Buffer for WN IgM, pH 7.2-7.6</b> Phosphate Buffered Saline Tween 20 (≤0.05%) Thimerosal (0.01%)	9005-64-5 54-64-8	No Yes
<b>3. West Nile antigen (WNRA) for IgM</b> Tween 20 (≤0.05%) Thimerosal (0.002-0.005%) G418 sulphate (0.0025-0.004%) WNV antigens (Non-infectious WNV PrM and E antigens)	9005-64-5 54-64-8 108321-42-2	No Yes No
<b>4. Normal cell antigen (NCA) for IgM</b> Tween 20 (≤0.05%) Thimerosal (0.002-0.005%) COS-1 cell line	9005-64-5 54-64-8	No Yes
<b>5. Human IgM Negative Control (IgM N)</b> Heat-inactivated negative serum <i>Biohazardous</i>		
<b>6. Human IgM Positive Control</b> Heat-inactivated positive serum Thimerosal (0.01%) <i>Biohazardous</i>	54-64-8	Yes
<b>7. 10X Wash Buffer, pH 6.7-7.1</b>		

Phosphate buffered saline (10X) Tween 20 (1.0%)	9005-64-5	No
<b>8. EnWash, pH 7.2-7.6</b> Phosphate buffered saline Tween 20 ( $\leq 0.05\%$ )	9005-64-5	No
<b>9. Enzyme Conjugate-HRP for IgM, pH 7.2-7.6</b> 6B6C-1 mAb (to WN virus E protein antigen) with horseradish peroxidase Phosphate buffered saline Tween 20 ( $\leq 0.05\%$ ) Thimerosal (0.01%)	9005-64-5  54-64-8	No  Yes
<b>10. Liquid TMB Substrate, pH 3.3-3.8</b> 3,3',5,5'-Tetramethylbenzidine ( $\leq 0.05\%$ ) Hydrogen peroxide ( $\leq 0.05\%$ ) Citric-acid citrate buffer	54827-17-7 7722-84-1	No No
<b>11. Stop Solution</b> Sulfuric Acid, aqueous (1N) <i>Corrosive</i>	7664-93-9	No

### 3. Hazard 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.

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<u>Ingestion</u>	Wash out mouth with water provided person is conscious; get immediate medical attention.
<u>Skin</u>	Immediately flush thoroughly with large amounts of water. Remove contaminated clothing and wash before reuse. Seek medical attention.
<u>Eyes</u>	Immediately flush thoroughly with water for at least 15 minutes. Seek medical attention.

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## **5. Fire Fighting Measures**

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<b>Extinguishing Media</b>	Use dry chemical powder.
<b>Fire Fighting Procedures</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Fire &amp; Explosion Hazards</b>	Emits toxic fumes under fire conditions.

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## **6. Accidental Release Measures**

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### **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.

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## **7. Handling and Storage**

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### **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.

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## **8. Exposure Controls and Personal Protection**

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### **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 and Chemical Properties**

<b>Boiling Point (C 760 mmHg)</b>	N/A
<b>Melting Point (C)</b>	N/A
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	N/A
<b>pH</b>	See Section 2.
<b>Flash Point (F)</b>	N/A
<b>Flammable Limits LEL (%)</b>	N/A
<b>Flammable Limits UEL (%)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	N/A
<b>Percent Volatile by vol (%)</b>	N/A
<b>Vapor Density (Air = 1)</b>	N/A
<b>Evaporation Rate (BuAc = 1)</b>	N/A
<b>Solubility in Water</b>	N/A
<b>Appearance</b>	N/A

N/A = Not Available

**10. Stability and Reactivity**

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**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

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**11. Toxicological Information**

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Oral Rat LD50 N/A  
Inhalation Rat LD50 N/A  
Skin Rabbit LD50 N/A

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**12. Ecological Considerations**

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No data available.

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**13. Disposal Considerations**

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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.

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**14. Transportation Information**

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**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.

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**15. Regulatory Information**

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Component	SARA TPQ (lbs)	SARA DeMininis (%)	CERCLA RQ (lbs)
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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.

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## 16. Other Information

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### 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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