MATERIAL SAFETY DATA SHEET



Histamine EIA Kit Product Number: FS35

Revision Date: 06/10/2014

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MSDS: Histamine EIA Kit for Food and Beverage Product No. FS35

This EIA Kit, is provided and produced by Oxford Biomedical Research as a test for food quality.

Manufacturer:

Oxford Biomedical Research 2165 Avon Industrial Dr. Rochester Hills, MI 48309 (248) 852-8815

Section 1 - Hazardous Components:

Component: Hazardous Content:

EIA Buffer None

Extraction Buffer None

HRP Conjugate None

Standard None

TMB Substrate Substrate Ingredient 1

Wash Buffer None

Section 2 - Physical and Chemical Characteristics:

EIA Buffer:

Boiling Point: ~100°C Specific Gravity: Not Determined

Vapor Pressure: Not Determined Melting Point: N/A

Vapor Density: Not Determined Evaporation Rate: Not Determined

Solubility in Water: Soluble Appearance: Clear Liquid

Extraction Buffer:

Boiling Point: ~100°C Specific Gravity: Not Determined

Vapor Pressure: Not Determined Melting Point: N/A

Vapor Density: Not Determined Evaporation Rate: Not Determined

Solubility in Water: Soluble Appearance: Clear Liquid

HRP Conjugate:

Boiling Point: ~100°C Specific Gravity: Not Determined

Vapor Pressure: Not Determined Melting Point: N/A

Vapor Density: Not Determined Evaporation Rate: Not Determined

Solubility in Water: Soluble Appearance: Clear Liquid

Standard:

Boiling Point: ~100°C Specific Gravity: Not Determined

Vapor Pressure: Not Determined Melting Point: N/A

Vapor Density: Not Determined Evaporation Rate: Not Determined

Solubility in Water: Soluble Appearance: Clear Liquid

TMB Substrate:

Boiling Point: 81°C Specific Gravity: 1.033 ($H_20 = 1$)

Vapor Pressure: 0.29 mm Hg @ 20°C Melting Point: N/A

Vapor Density: 3.4 (Air = 1) Evaporation Rate: Not Determined

Solubility in Water: Soluble Appearance: Clear Liquid

Wash Buffer:

Boiling Point: ~100°C Specific Gravity: Not Determined

Vapor Pressure: Not Determined Melting Point: N/A

Vapor Density: Not Determined Evaporation Rate: Not Determined

Solubility in Water: Soluble Appearance: Clear Liquid

Section 3 - Fire and Explosion Hazard Data:

EIA Buffer:

Flash Point: Not Determined

Special Fire Fighting Measures: None

Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.

Auto-Ignition Temperature: Not Determined

Explosion Limits: Upper: Not Determined Lower: Not Determined

Extraction Buffer:

Flash Point: Not Determined

Special Fire Fighting Measures: None

Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.

Auto-Ignition Temperature: Not Determined

Explosion Limits: Upper: Not Determined Lower: Not Determined

HRP Conjugate:

Flash Point: Not Determined

Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray

Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.

Auto-Ignition Temperature: Not Determined

Explosion Limits: Upper: Not Determined Lower: Not Determined

Standard:

Flash Point: Not Determined

Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray

Unusual Fire and Explosion Hazards: Carbon monoxide may be produced upon heating.

Auto-Ignition Temperature: Not Determined

Explosion Limits: Upper: Not Determined Lower: Not Determined

TMB (3,3',5,5'-tetramethylbenzidine) Substrate:

Flash Point: 103.9°C (187°F)

Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray

Unusual Fire and Explosion Hazards: Carbon monoxide and nitrogen oxides may be

produced upon heating.

Auto-Ignition Temperature: Not Determined

Explosion Limits: Upper: 9.5% Lower: 1.3%

Wash Buffer:

Flash Point: Not Determined

Special Fire Fighting Measures: Dry Chemical, CO₂, Water Spray

Unusual Fire and Explosion Hazards: Carbon monoxide and nitrogen oxides may be

produced upon heating.

Auto-Ignition Temperature: Not Determined

Explosion Limits: Upper: Not Determined Lower: Not Determined

Section 4 – Reactivity Hazard Data:

EIA Buffer:

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide may be

produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

Extraction Buffer:

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide may be

produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

HRP Conjugate:

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide upon

heating.

Material Incompatibility: Strong Oxidizing Agents

Standard:

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition/Byproducts: Carbon monoxide or carbon dioxide may be

produced upon heating.

Material Incompatibility: Strong Oxidizing Agents,

TMB Substrate:

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition/Byproducts: Carbon monoxide, carbon dioxide, or nitrogen

oxides may be produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

Wash Buffer:

Stability: Stable

Conditions to Avoid: N/A

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition/Byproducts: Carbon monoxide, carbon dioxide, or nitrogen

oxides may be produced upon heating.

Material Incompatibility: Strong Oxidizing Agents

Section 5 - Health Hazard Data:

EIA Buffer:

Exposure Limits: OSHA PEL: N/A ACGIH TLV: N/A

Toxicity Data: N/A

Health Hazards: None Known

Chronic Exposure: N/A

Target Organs: None Known

First Aid: Ingestion: Wash out mouth with water if conscious and see

immediate medical attention.

Inhalation: Expose to fresh air and seek immediate medical

attention. Give oxygen if breathing is difficult.

Skin: Flush area with water for 15 minutes and seek immediate

medical attention. Remove contaminated clothing.

Eyes: Flush with water for 15 minutes while lifting eyelids and

seek immediate medical attention.

Extraction Buffer:

Exposure Limits: OSHA PEL: N/A ACGIH TLV: N/A

Toxicity Data: N/A

Health Hazards: None Known

Chronic Exposure: N/A

Target Organs: None Known

First Aid: Ingestion: Wash out mouth with water if conscious and see

immediate medical attention.

Inhalation: Expose to fresh air and seek immediate medical

attention. Give oxygen if breathing is difficult.

Skin: Flush area with water for 15 minutes and seek immediate

medical attention. Remove contaminated clothing.

Eyes: Flush with water for 15 minutes while lifting eyelids and

seek immediate medical attention.

HRP Conjugate:

Exposure Limits: OSHA PEL: N/A ACGIH TLV: N/A

Toxicity Data: N/A

Health Hazards: None Known

Chronic Exposure: N/A

Target Organs: None Known

First Aid: Ingestion: Wash out mouth with water if conscious and see

immediate medical attention.

Inhalation: Expose to fresh air and seek immediate medical

attention. Give oxygen if breathing is difficult.

Skin: Flush area with water for 15 minutes and seek immediate

medical attention. Remove contaminated clothing.

Eyes: Flush with water for 15 minutes while lifting eyelids and

seek immediate medical attention.

Standard:

Exposure Limits: OSHA PEL: N/A ACGIH TLV: N/A

Toxicity Data: N/A

Health Hazards: None Known

Chronic Exposure: N/A

Target Organs: None Known

First Aid: Ingestion: Wash out mouth with water if conscious and see

immediate medical attention.

Inhalation: Expose to fresh air and seek immediate medical

attention. Give oxygen if breathing is difficult.

Skin: Flush area with water for 15 minutes and seek immediate

medical attention. Remove contaminated clothing.

Eyes: Flush with water for 15 minutes while lifting eyelids and

seek immediate medical attention.

TMB Substrate:

Exposure Limits: OSHA PEL: N/A ACGIH TLV: N/A

Toxicity Data: N/A

Health Hazards: Direct contact with eyes, mucus membranes, skin, or

respiratory track may cause irritation.

Chronic Exposure: Overexposure may cause reproductive disorders.

Target Organs: Eyes, Skin, Reproductive Organs

First Aid: Ingestion: Wash out mouth with water if conscious and see

immediate medical attention.

Inhalation: Expose to fresh air and seek immediate medical

attention. Give oxygen if breathing is difficult.

Skin: Flush area with water for 15 minutes and seek immediate

medical attention. Remove contaminated clothing.

Eyes: Flush with water for 15 minutes while lifting eyelids and

seek immediate medical attention.

Wash Buffer:

Exposure Limits: OSHA PEL: N/A ACGIH TLV: N/A

Toxicity Data: N/A

Health Hazards: None Known

Chronic Exposure: N/A

Target Organs: None Known

First Aid: Ingestion: Wash out mouth with water if conscious and see

immediate medical attention.

Inhalation: Expose to fresh air and seek immediate medical

attention. Give oxygen if breathing is difficult.

Skin: Flush area with water for 15 minutes and seek immediate

medical attention. Remove contaminated clothing.

Eyes: Flush with water for 15 minutes while lifting eyelids and

seek immediate medical attention.

Section 6 - Control Measures:

Respiratory Protection: None required with proper ventilation.

Ventilation: Requires local exhaust.

Protective Gloves: Proper disposable gloves. Eye Protection: Safety glasses or goggles.

Other Protective Equipment: Uniform, lab coat, or disposable lab wear.

Work/Hygienic Practices: Follow usual precautionary measures for handling chemicals.

Keep away from food and beverages.

Section 7 - Handling and Use Precautions:

Accidental Release Measures: Wear suitable protective equipment to prevent inhalation, ingestion, or skin and eye contact. Clean up spills with a sponge, mop, or vermiculite. Waste Disposal: Disposal shall be in accordance with local, state, or federal guidelines.

Handling and Storage: 4-8°C

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