

#### **MATERIAL SAFETY DATA SHEET**

MSDS DATE: 09 / 26 / 06

SECTION 1 – PRODUCT IDENTIFICATION/MANUFACTURER

Trade name and synonym: Human Resistin EIA kit

Catalog number A05177
CAS number NA

 Manufacturer:
 Telephone Number: 33 (1) 39 30 62 60

 SPI-BIO
 Facsimile Number: 33 (1) 39 30 62 99

Parc d'Activités Pas du Lac E-Mail: sales@spibio.com

10 bis, avenue Ampère

F-78180 Montigny-le-Bretonneux,

France

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SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS			
Name of reagents	Ingredients	CAS#	Concentration
Stop Solution	Sulfuric acid	7664-93-9	1.96%
Biotin labelled Antibody	Methylisothiazolone Bromonitrodioxane Procline <sup>™</sup> 300	26172-54-3 30007-47-7 NA	0.02% 0.02% 0.02%
Streptavidin Tracer	Methylisothiazolone Bromonitrodioxane Procline <sup>™</sup> 300	26172-54-3 30007-47-7 NA	0.02% 0.02% 0.02%
Substrate (TMB) Solution	3,3',5,5'-Tetramethylbenzidine Ethylenediaminetetraacetate 5-Chloro-2-methyl-4-isothiazol-3-one 2-Methyl-4-isothiazol-3-one	54827-17-7 6381-92-6 26172-55-4 2682-20-4	<0.036% 0.093% 0.00009% 0.00003%
Human Resistin Standard	Thimerosal	54-64-8	<0.05%
Human Resistin Quality Controls	Thimerosal ε-Aminocaproic acid	54-64-8 60-32-2	<0.05% <0.03%
Concentrated Wash Buffer	Thimerosal	54-64-8	0.05%

### **SECTION 3 – HAZARDS IDENTIFICATION**

Special indication of hazards to humans and the environment:

Harmful by inhalation, ingestion, and skin absorption.

Irritating to eyes, respiratory system and skin.

The Stop solution contains sulfuric acid in total concentration less than 5% and is not classified as "Corrosive" or "Irritating". The Quality controls (Quality control low and Quality control high) contain ε-aminocaproic acid in total concentrations less than 0.1% and are classified as "Harmful". The Quality controls are based on HIV-1, HIV-2 and HbsAg negative human sera and must be handled as potentially infectious material. The concentrated wash buffer, standard and quality controls contain thimerosal in total concentration less than 0.1% and are classified as "Harmful".

## **SECTION 4 - FIRST AID MEASURES**

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

In case of skin contact, immediately wash skin with soap and copious amounts of water.

In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes.

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

# **SECTION 5 – FIRE FIGHTING MEASURES**

Extinguish media:

Suitable: water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Special risks:

Specific hazard(s): None

Special protective equipment for fire-fighters: None



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### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Procedure(s) of personal precaution(s):

Wear suitable laboratory protective equipment lab coats, gloves and safety glasses.

Methods for cleaning up:

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.

#### **SECTION 7 – HANDLING AND STORAGE**

Storage:

Conditions of storage: Store at 2-8°C.

Handling:

Directions for safe handling: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Wear suitable protective clothing including laboratory overalls, safety glasses and gloves. Do not get in eyes, on skin, or on clothing. Do not breathe the vapour. Wash thoroughly after handling.

### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls:

Mechanical exhaust required.

General hygiene measures:

Wash thoroughly after handling.

Personal protective equipment:

Respiratory protection: none

Hand protection: Compatible chemical-resistant gloves.

Eye protection: chemical safety goggles. Body protection: protective clothing

### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: liquids except the standard and quality controls, solid

Colour: Streptavidin tracer, EIA buffer, Biotin labelled antibody: yellowish to maroon, event. reddish

Substrate (TMB) solution – essentially colourless

Stop solution and concentrated wash buffer - colourless

Smell (odour): Odourless

pH value (at 25°C): Stop solution: < 1; Other reagents: 6.8 - 7.4

Melting point (°C): No data. Boiling point (°C): No data. Flash point (°C): No data. Inflammability: No data. Vapour tension (°C): No data. Solubility in water: Soluble.

Partition coefficient a-octanol/water: No data.

### **SECTION 10 - STABILITY AND REACTIVITY**

Stability:

Stable.

Conditions to be avoided: heat.

Materials to avoid: acids. Contact with acids liberates very toxic gas.

Hazardous decomposition products: Unknown

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### **SECTION 11 – TOXICOLOGICAL INFORMATION**

The product contains  $\epsilon$ -aminocaproic acid in total concentration less than 0.03% and thimerosal in total concentration of 0.05%.

Acute toxicity:

LD50 oral rat (mg/kg): unknown.

LD50 skin rat or rabbit (mg/kg): unknown. Gingivostomatitis LD50: unknown.

LD50 inhalation: unknown

The toxicological properties have been not fully evaluated.

#### **SECTION 12 – ECOLOGICAL INFORMATION**

Avoid release to the environment

Water hazard class: 2 (water-damaging substances)

### **SECTION 13 – DISPOSAL CONSIDERATION**

### Substance disposal:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

### **SECTION 14 - TRANSPORT INFORMATION**

RID/ADR:

No limitation for road transport.

IMDG:

No limitation for sea transport.

IATA:

No limitation for air transport.

#### **SECTION 15 – REGULATORY INFORMATION**

According to the Act No. 157/1998 Coll. on chemical substances and chemical preparations and on amendments in some other laws and acts, the components contained in the Human Resistin EIA kit are non-hazardous substances in said concentrations.

### **SECTION 16 – OTHER INFORMATION**

#### Warranty:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Use of product: For R&D use only. Not for drug, household or other uses.