



**DIAGNOSTIC AUTOMATION, INC.**

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## **MATERIAL SAFETY DATA SHEET**

### **Zearalenone ELISA kit**

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

##### **1.1. Identification of the product:**

Product name: **Zearalenone ELISA kit**

Product classification: In-vitro diagnostics

Product number: 5148-8

##### **1.2. Manufacturer identification**

Company Name: **Diagnostic Automation, Inc.**

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Emergency Telephone number: Please contact the local hospitals.

## 2. Wash Buffer, Sample Diluent, and Standards

The Wash Buffer, Sample Diluent and standards contain no toxic or otherwise hazardous components

## 3. Specific Antibody

### 3.1 Chemical Characterization / Information on Ingredients

Character	<i>aqueous, protein-containing mixture preserved with 0.01 % potassium tetraiodomercurate (K<sub>2</sub>HgI<sub>4</sub>, resulting complex of KI and HgI<sub>2</sub>).</i>
CAS-No. (HgI <sub>2</sub> )	7774-29-0
EINECS-No. (HgI <sub>2</sub> )	231-873-8
Classification	<i>Very toxic, irritant.</i>

### 3.2 Hazards Identification

**Warnings:** *Toxic if swallowed. Irritates eyes, respiratory tract and skin. In case of breathing in or skin contact, a sensitization may be possible. Because of a possible mutagenic effect, an irreversible defect is possible (affected organs are kidneys and CNS). In case of contact with acids, the development of toxic gases is possible.*

### 3.3 First Aid Measures

Eye Contact	<i>Promptly wash eyes with water for at least 15 minutes. Seek medical advice.</i>
Skin Contact	<i>Flush skin with copious amounts of water and soap.</i>
Ingestion	<i>Wash out mouth with water provided person is conscious. Seek medical advice.</i>
Inhalation	<i>Remove to fresh air. If breathing becomes difficult, seek medical advice.</i>
Changing Clothes	<i>In case of sever contamination</i>

### 3.4 Fire-Fighting Measures

Extinguishing Media	<i>Water spray. Use carbon dioxide, dry chemical powder or appropriate foam.</i>
Special Fire Fighting Procedure	<i>Wear self-containing breathing apparatus and special protective clothes.</i>
Unusual Fire Procedure	<i>N/A</i>
Thermal decomposition	<i>Emits toxic mercury fumes under fire conditions.</i>

### 3.5 Accidental Release Measures

Personal Protection	<i>Protective glasses, rubber gloves and protective clothing.</i>
Steps after Spillage	<i>Remove spilled fluid onto an inert material. Ventilate area. Wash area with soap solution. Collect contaminated fluid and material in a special closable container.</i>
Absorbent material	<i>No restriction.</i>
Waste Disposal method	<i>Consult a specialist for disposal or the spilled substance.</i>

### 3.6 Handling and Storage

Handling	<i>Wear protective clothing. Avoid contact with eyes, skin and clothes. Open and handle container carefully. Thoroughly washing after use is recommended.</i>
Storage	<i>Store between +2°C and +8°C.</i>

### 3.7 Exposure Controls / Personal Protection

TLV	<i>No.</i>
Personal Protection	<i>Protective glasses, rubber gloves and clothing. Thoroughly washing after use is recommended.</i>

### 3.8 Physical and Chemical Properties

Physical State	<i>Liquid</i>	Flash Point	<i>N/A</i>
Color	<i>Red</i>	Explosion Limits	<i>N/A</i>
Odor	<i>N/A</i>	Vapor Pressure	<i>N/A</i>
pH-Value	<i>6.2-6.7</i>	Solubility in Water	<i>complete</i>
Boiling Point	<i>100°C</i>	Ignition Temperature	<i>N/A</i>
Melting Point	<i>N/A</i>	Viscosity	<i>N/A</i>

### 3.9 Stability and Reactivity

Hazardous Decomposition Products	<i>Mercury</i>
Hazardous Polymerization	<i>Will not occur</i>

### 3.10 Toxicological Information

LD <sub>50</sub> Oral (rat)	<i>18 mg/kg</i>	LD <sub>50</sub> Skin (rat)	<i>75 mg/kg</i>
LD <sub>50</sub> Oral (man)	<i>357 mg/mg</i>	LD <sub>50</sub> Inhalation	<i>Not known</i>

### 3.11 Ecological Information

Water Hazard Class	<i>1 (own specification)</i>
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## 4. Conjugate

### 4.1 Chemical Characterization / Information on Ingredients

Character	<i>aqueous, protein-containing mixture preserved with 0.01 % methylisothiazolone and 0.01 % bromonitrodioxane and 10 mg/l Proclin<sup>TM</sup>300.</i>
CAS-No.	<i>Not determined</i>

### 4.2 Hazards Identification

**Warnings:** *Though complete toxicity information on this conjugate buffer is not available, none of its components are known to be toxic or hazardous at use concentrations. The buffer contains the mercury-free preservatives methylisothiazolone (0.01%), bromonitrodioxane (0.01%) and Proclin<sup>TM</sup>300, which can produce ad-verse health effects in their concentrated forms. For more specific*

*toxicity information on these components, refer to the material safety data sheets available from the manufacturer (Boehringer Mannheim Corporation and Rohm and Haas, respectively).*

#### **4.3 First Aid Measures**

Eye Contact	<i>Promptly wash eyes with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (approximately 15 minutes). Seek medical advice.</i>
Skin Contact	<i>Wash thoroughly with water and soap.</i>
Ingestion	<i>Wash out mouth with water provided person is conscious. Drink one cup of water or milk to dilute in the stomach. Seek medical advice.</i>
Inhalation	<i>No special first aid measures necessary; inhalation or aspiration unlikely.</i>

#### **4.4 Fire-Fighting Measures**

Flash point	<i>Non-flammable</i>
Extinguishing Media	<i>No restriction.</i>
Special Fire Fighting Procedure	<i>No special procedures are required. As with any fire, wear full protective clothing and self-contained breathing apparatus.</i>
Unusual Fire Fighting Procedure	<i>None</i>

#### **4.5 Accidental Release Measures**

Personal Protection	<i>Protective glasses, rubber gloves and special protective clothing.</i>
Steps after Spillage	<i>Absorb spill with an absorbent cloth, then wash the area thoroughly with soap and water.</i>
Waste Disposal Method	<i>Observe all federal, state and local laws when considering waster disposal methods.</i>

#### **4.6 Handling and Storage**

Handling	<i>Wear protective clothing. Avoid contact with eyes, skin and clothes. Open and handle container carefully. Thoroughly washing after use is recommended.</i>
Storage	<i>Store between +2°C and +8°C.</i>

#### **4.7 Exposure Controls / Personal Protection**

Personal Protection	<i>Protective glasses, rubber gloves and clothing. Thoroughly washing after use is recommended</i>
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#### **4.8 Physical and Chemical Properties**

Physical State	<i>Liquid</i>	Flash Point	<i>N/A</i>
Color	<i>Red</i>	Ignition Temperature	<i>N/A</i>
Odor	<i>N/A</i>	Explosion Limits	<i>N/A</i>
pH-Value	<i>6.2-6.7</i>	Vapor Pressure	<i>N/A</i>
Boiling Point	<i>100 °C</i>	Solubility in Water	<i>complete</i>
Melting Point	<i>N/A</i>	Viscosity	<i>N/A</i>

## 4.9 Stability and Reactivity

Stability	<i>Chemically stable</i>
Incompatibilities	<i>None known</i>
Hazardous Decomposition Products	<i>Toxic fumes and carbon monoxide, carbon dioxide, nitro-gen oxides</i>
Hazardous Polymerization	<i>Will not occur</i>

## 4.10 Toxicological Information

N/A

## 4.11 Ecological Information

N/A

## 5. TMB (Substrate for HRP Conjugate)

### 5.1 Chemical Characterization / Information on Ingredients

Character	Product contains 0.05% Tetramethyl Benzidine (TMB)
CAS-No.	54827-17-7
Classification	<i>Hazardous. Irritant</i>

### 5.2 Hazard Identification

**Warnings:** *Toxic if swallowed. Irritant, handle with care.*

### 5.3 First Aid Measures

Eye Contact	<i>Promptly wash eyes with water for at least 15 minutes. Seek medical advice.</i>
Skin Contact	<i>Flush skin with copious amounts of water.</i>
Ingestion	<i>Wash out mouth with water provided person is conscious. Seek medical advice.</i>
Inhalation	<i>N/A</i>
Changing Clothes	<i>In case of severe contamination</i>

### 5.4 Fire-Fighting Measures

Extinguishing Media	<i>Water spray, carbon dioxide, dry chemical powder or appropriate foam</i>
Special Fire Fighting Procedure	<i>N/A</i>
Unusual Fire Fighting Procedure	<i>Emits toxic fumes under fire conditions</i>
Thermal Decomposition	<i>Dangerous decomposition is not anticipated</i>

### 5.5 Accidental Release Measures

Personal Protection	<i>Protective glasses, gloves and clothing.</i>
Steps after Spillage	<i>Remove spilled fluid onto an inert material. Wash area with soap</i>

Absorbent Material	<i>solution</i>
Waste Disposal Method	<i>No restriction</i> <i>Consult a specialist for disposal of the spilled substance.</i>

## 5.6 Handling and Storage

Handling	<i>Wear protective clothing. Open and handle container carefully.</i>
Storage	<i>Store between +2°C and +8°C.</i>
Other Precautions	<i>N/A</i>

## 5.7 Exposure Controls / Personal Protection

TLV	<i>No.</i>
Personal Protection	<i>Protective glasses, gloves and clothing.</i>

## 5.8 Physical and Chemical Properties

Physical State	<i>Liquid</i>	Flash Point	<i>N/A</i>
Color	<i>Yellow</i>	Ignition Temperature	<i>N/A</i>
Odor	<i>N/A</i>	Explosion Limits	<i>N/A</i>
pH-Value	<i>N/A</i>	Vapor Pressure	<i>N/A</i>
Solubility in Water	<i>Soluble</i>	Viscosity	<i>N/A</i>
Boiling point	<i>&gt;100°C</i>		

## 5.9 Stability and Reactivity

Hazardous Reactions	<i>N/A</i>
Hazardous Decomposition Products	<i>Toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides</i>

## 5.10 Toxicological Information

LD <sub>50</sub> Oral	<i>Not known</i>	LD <sub>50</sub> Skin	<i>Not known</i>
LD <sub>50</sub>	<i>Not known</i>	LD <sub>50</sub> Inhalation	<i>Not known</i>

## 5.11 Ecological Information

Water Hazard Class	<i>1 (own specification)</i>
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## 6. Stop-Solution (0.5 M Sulfuric Acid)

### 6.1 Chemical Characterization / Information on Ingredients

Character	<i>Product contains 0.5 M Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)</i>
CAS-No of H <sub>2</sub> SO <sub>4</sub>	<i>7664-93-9</i>
EINECS-No.	<i>213-639-5</i>
Classification	<i>Very caustic, toxic, possible carcinogen</i>

## 6.2 Hazard Identification

**Warnings:** *Very caustic, toxic, possible carcinogen after inhalation, irritant, handle with care.*

## 6.3 First Aid Measures

Eye Contact	<i>Promptly wash eyes with water for at least 15 minutes. Seek medical advice.</i>
Skin Contact	<i>Flush skin with copious amounts of water and soap.</i>
Ingestion	<i>Wash out mouth with water provided person is conscious. Seek medical advice.</i>
Inhalation	<i>Remove to fresh air. If breathing becomes difficult, seek medical advice.</i>
Changing Clothes	<i>In case of severe contamination.</i>

## 6.4 Fire-Fighting Measures

Extinguishing Media	<i>Do not use water. Use carbon dioxide, dry chemical powder or appropriate foam.</i>
Special Fire Fighting Procedure	<i>Wear self-containing breathing apparatus and special protective clothes.</i>
Unusual Fire Fighting Procedure	<i>Emits toxic fumes under fire conditions.</i>
Thermal Decomposition	<i>N/A</i>

## 6.5 Accidental Release Measures

Personal Protection	<i>Protective glasses, gloves and clothing.</i>
Steps after Spillage	<i>Remove spilled fluid onto an inert material. Ventilate area. Wash area with soap solution. Collect contaminated fluid and material in a special closable container.</i>
Absorbent Material	<i>No restriction</i>
Waste Disposal Method	<i>Consult a specialist for disposal of the spilled substance.</i>

## 6.6 Handling and Storage

Handling	<i>Wear protective clothing. Open and handle container carefully</i>
Storage	<i>Store between +2°C and +8°C.</i>
Other Precautions	<i>N/A</i>

## 6.7 Exposure Controls / Personal Protection

TLV	<i>No</i>
Personal Protection	<i>Protective glasses, rubber gloves and acid resistant clothing; breathing apparatus in severe cases: thoroughly washing after use is recommended.</i>

## 6.8 Physical and Chemical Properties

Physical State	<i>Liquid</i>	Flash Point	<i>N/A</i>
Color	<i>Colorless</i>	Boiling Point	<i>&gt;100°C</i>

Odor	N/A	Solubility in Water	<i>Soluble</i>
pH-Value	1.0-3.0	Vapor Pressure	N/A

## 6.9 Stability and Reactivity

Hazardous Reactions	<i>Incompatibility with bases, halogenides and metals.</i>
Hazardous Decomposition Products	<i>Sulfur oxides.</i>

## 6.10 Ecological Information

LD50 Oral	2140 mg/kg	LD50 Skin	<i>Not Known</i>
LD50	135 mg/kg	LD50 Inhalation (rat)	510 mg/m <sup>3</sup> (2h)

## 6.11 Toxicological Information

Water Hazard Class	1 (own specification)
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## 7. Disposal Considerations

*Observe all Federal, State and Local laws concerning Health and Pollution.*

## 8. Transport Information

*N/A*

## 9. Regulatory Information

*N/A*

## 10. Other Information

*The information herein is believed to be correct as of the given data but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines applicable.*



<b>Date Adopted</b>	<b>2017-03-22</b>
<b>REF 5148-8</b>	<b>Zearalenone ELISA kit</b>



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