



## DIAGNOSTIC AUTOMATION, INC.

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# MATERIAL SAFETY DATA SHEET

## Streptomycin ELISA TEST KIT

(Complies with the requirements of regulation (EC) no.  
1907/2006 (REACH), annex II)

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

#### 1.1. Identification of the product:

Product name: **Streptomycin ELISA TEST KIT**

Product classification: In-vitro diagnostics

Product number: 5128-8

#### 1.2. Use of the preparation:

Enzyme immunoassay for the quantitative determination of Streptomycin in food and urine.

#### 1.3. Manufacturer identification

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

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Emergency Telephone number: Please contact the local hospitals.

## 2. HAZARDS IDENTIFICATION

The components of the preparation are classified according to directive 1999/45/EC as follows:

Classification:	Microtiter strips	Not Classified
	Standards	Not Classified
	Antibody Solution	Not Classified
	Enzyme conjugate	Not Classified
	Washing buffer (10X)	Not Classified
	Sample diluent	Not Classified
	Substrate	Not Classified
	Stop solution	Corrosive, C, R34
Health hazards	Microtiter strips	Not Classified
	Standards	Not Classified
	Antibody Solution	Not Classified
	Enzyme conjugate	Not Classified
	Washing buffer (10X)	Not Classified
	Sample diluent	Not Classified
	Substrate	Not Classified
	Stop solution	Causes burns

**For detailed information to health effects and symptoms see section 11.**

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Component	Microtiter strips	Commodity
	Standards	Preparation
	Antibody Solution	Preparation
	Enzyme conjugate	Preparation
	Washing buffer (10X)	Preparation
	Sample diluent	Preparation
	Substrate	Preparation
	Stop solution	Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> ), 0.5M

Hazardous substance	Concentration	CAS No.	EC No.	Classification
Sulfuric acid	1-5%	7664-93-9	231-639-5	C, R35

See section 16 for the detailed text of the above stated r-phrases.

There are no ingredients contained in the preparation which are classified as harmful or polluting in the contained concentrations according to the actual state of knowledge of the manufacturer. The product is not hazardous in the sense of the directive 67/548/EC.

#### 4. FIRST AID MEASURES

Inhalation	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Move person into fresh air. If not breathing give artificial respiration. In case of severe disturbance consult a physician.
Ingestion	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. In case of severe disturbance consult a physician
Skin Contact	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Rinse skin with plenty of water. Re-move contaminated clothes and protective gloves. Wash clothes thoroughly before reuse. Clean shoes. In case of severe disturbance consult a physician
Eye Contact	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses. In case of severe disturbance consult a physician.
Protection of First Aider	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Do not take any actions

which are connected to any personal risk or which were not adequately trained. If vapors are suspected, wear appropriate air-purifying respirator. For first-aid providing persons there exists a possible risk due to mouth-to-mouth resuscitation. Remove contaminated clothing. Wear protective gloves.

**Advice for physicians:** No special treatment. Treat symptomatically. In the case of ingestion or inhalation of larger amounts consult toxicologist.

**Special treatment:** No data available.

**For detailed information to health impacts and symptoms see section 11.**

## 5. FIRE-FIGHTING MEASURES

Not suitable extinguishing media:	Microtiter strips	Not applicable
	Standards	Not applicable
	Antibody Solution	Not applicable
	Enzyme conjugate	Not applicable
	Washing buffer (10X)	Not applicable
	Sample diluent	Not applicable
	Substrate	Not applicable
	Stop solution	Do not use water jet

Suitable extinguishing media: Consider adjacent fires when choosing the extinguishing medium.

Dangerous combustion products: No data available.

Special protective equipment for fire-fighters: Wear appropriate personal protective equipment. Wear pressure operated full-face respirator.

## 6. ACCIDENTIAL RELEASE MEASURES

Personal precaution:	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Do not take any actions which are connected to any personal risk or which were not adequately trained. Evacuate surrounding. Prohibit access for not protected persons. Do not touch or tread spilled substance. Avoid inhalation of vapors or mist. Care for sufficient ventilation. If ventilation is insufficient, wear respirator. Wear adequate personal protective equipment (see section 8).
Environmental precautions:	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Avoid spreading and drain-off of spilled material as well as contact with soil, watercourses, drains or canalization. Contact responsible department, if environmental contaminations were caused (drains, watercourses, soil or air).
Methods for cleaning:	Microtiter strips  Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Sweep material and dispose in an appropriate labeled container. Dispose via an approved waste disposal company.  Eliminate leakage. Remove container from contaminated area. Swab with a cloth or adsorb with an inert dry material and dispose in an appropriate labeled container. Dispose via an approved waste disposal company.

## 7. HANDLING AND STORAGE

Handling:	Microtiter strips	
	Standards	
	Antibody Solution	After handling wash hands thoroughly.
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	
	Substrate	
	Stop solution	Do not ingest. Avoid contact with eyes, skin or clothes. Use only with sufficient ventilation. Do not inhale vapor or mist. After handling wash hands thoroughly.
Storage	Store at 2-8°C. Protect from direct sun light. Store only in original containers. Do not store together with food. Keep containers closed until usage. After usage close opened containers again tightly. Do not store in unlabeled containers. Consider local regulations.	
Specific use	According to the intended use of the instruction manual for the determination of antibodies against infectious agents. Do not use reagents for other purposes.	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 EXPOSURE LIMIT VALUES

Microtiter strips	Not applicable
Standards	Not applicable
Antibody Solution	Not applicable
Enzyme conjugate	Not applicable
Washing buffer (10X)	Not applicable
Sample diluent	Not applicable
Substrate	Not applicable
Stop solution	See the below table

<b>Substance</b>	Sulfuric acid
<b>Type of exposure limit</b>	Threshold limit value (Germany 2009)
<b>Exposure limit</b>	0.1mg/m <sup>3</sup> determined as respirable aerosol fraction
<b>Monetary value</b>	0.2 mg/m <sup>3</sup> determined as respirable

	aerosol fraction
<b>Maximum exposure limit</b>	exceeding factor 1, 15 min (mean), 4x/shift, 1 hour interval

## 8.2 EXPOSURE CONTROLS

### **Limitation of Exposure in the working environment:**

No special ventilation procedures. Common ventilation should be sufficient to limit exposure of the employees towards air pollutants. Optionally use process chambers, local exhaust fans or other technical equipment to keep exposition under recommended or mandatory limits.

### **Hygienic measures:**

After handling of chemical products as well as before eating, smoking or visit of a lavatory wash hands, forearms and optionally face thoroughly. Wash contaminated clothes before re-use. Ensure that close to the work environment eye wash stations and safety showers are available.

### **Respiration protection:**

While handling according to the intended use no respiratory protection is necessary.

### **Hand protection**

Wear chemical resistant impenetrable gloves according to the specifications of directive 89/686/EC and the resulting standard EN 374. Time of penetration of the glove material: permeation level > 6.

### **Eye protection:**

To avoid exposition against liquid spills, mist, gases or dust wear safety goggles with side protection according to the specifications of directive 89/686/EC and the resulting standard EN166.

### **Body protection:**

Wear closed lab coat.

### **Monitoring of exposure in the working environment:**

For methods of monitoring the respiratory exposition against chemical sub-stances see the European standard EN 689.

### **Limitation and monitoring of environmental exposure:**

Monitor the emission of ventilation and process equipment for ensuring the compliance with the requirements of environment protection laws. In case of exceeding threshold values install exhaust air washers, filters or other appropriate technical

equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 GENERAL INFORMATION

Physical state	Microtiter strips	Plastic plate
	Standards	Liquid
	Antibody Solution	Liquid
	Enzyme conjugate	Liquid
	Washing buffer (10X)	Liquid
	Sample diluent	Liquid
	Substrate	Liquid
	Stop solution	Liquid
Color	Microtiter strips	White / Clear
	Standards	Blue
	Antibody Solution	Blue
	Enzyme conjugate	Red
	Washing buffer (10X)	Clear
	Sample diluent	Blue
	Substrate	Clear
	Stop solution	Clear

### 9.2 IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH:	Microtiter strips	Not applicable
	Standards	6-8
	Antibody Solution	6-8
	Enzyme conjugate	6-8
	Washing buffer (10X)	6-8
	Sample diluent	6-8
	Substrate	3-4
	Stop solution	<1

Boiling point:	Microtiter strips	Not applicable
	Standards	
	Antibody Solution	
	Enzyme conjugate	Lowest known
	Washing buffer (10X)	value (water):
	Sample diluent	100°C/212°F
	Substrate	
Stop solution		

Melting point:	Microtiter strips	Not applicable
	Standards	



	Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	May melt at 0°C / 32°F This specification is based on the ingredient water.
Solubility:	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Not applicable <hr/> Complete solubility in cold and hot water
Vapor pressure:	Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate Stop solution	Not applicable <hr/> 23.4 mbar at 20°C / 68°F This specification is based on the ingredient water
No available Data	To flash point, explosion limits, ignition temperatures, viscosity, oxidizing properties, density, partition coefficient (octanol / water).	

## 10. STABILITY AND REACTIVITY

### 10.1 CONDITIONS TO AVOID

Microtiter strips Standards Antibody Solution Enzyme conjugate Washing buffer (10X) Sample diluent Substrate	Components of the product are stable. Under the specified storage conditions no degradation or polymerization will occur.
Stop solution	Thermal stress.

### 10.2 MATERIALS TO AVOID

Microtiter strips  
Standards

Antibody Solution	When handled according to the intended use no hazardous reaction are to be expected
Enzyme conjugate	
Washing buffer (10X)	
Sample diluent	
Substrate	
Stop solution	Strong bases

### 10.3 DANGEROUS DECOMPOSITION PRODUCTS

Under the specified storage and handling conditions no dangerous decomposition products are formed. In the case of fire, dangerous decomposition products (carbon oxides, nitric oxides, sulfuric oxides) may occur.

## 11. TOXICOLOGICAL INFORMATION

Inhalation	Microtiter strips	No health effects know
	Standards	
	Antibody Solution	
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	
Substrate	May cause irritation of the respiratory system	
Stop solution		
Ingestion	Microtiter strips	No health effects known
	Standards	
	Antibody Solution	
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	
Substrate	May cause irritations in mouth or throat	
Stop solution		
Skin Contact	Microtiter strips	No health effect known
	Standards	
	Antibody Solution	
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	
Substrate	May cause irritation of the skin	
Stop solution		
Eye Contact	Microtiter strips	

Standards	
Antibody Solution	No health effects known
Enzyme conjugate	
Washing buffer (10X)	
Sample diluent	
Substrate	
Stop solution	My cause irritation of the eyes

The following information is based on sulfuric acid as ingredient of the stop solution:

LD50: 2140 mg / kg (rat)  
Sensitization No sensitizing effects known.

Further information of the components to chronic toxicity, carcinogenicity, mutagenicity, teratogenicity or reproductive toxicity is not available.

## 12. ECOLOGICAL INFORMATION

The following information is based on sulfuric acid as ingredient of the stop solution. For all other components no data are available.

Aquatic toxicity: Harmful effects on water organisms due to ph shift. Quantitative data to the ecological effects of the product are not available  
Water Hazard: Weakly harmful to water.

## 13. DISPOSAL CONSIDERATIONS

Waste disposal method: Consider all national environmental protection requirements and waste disposal laws as well as local rules. Avoid spreading of spilled material through contact with soil, water courses, drains or canalization.  
Hazardous waste According to our current knowledge no hazardous waste in the sense of the European directive 91/689/EC.

## 14. TRANSPORT INFORMATION

This product is not subject to the rules of the following traffic systems:

Street traffic: ADR (directive 94/55/EC)  
Rail traffic: RID (directive 96/49/EC)  
Sea traffic: IMDG  
Air traffic: ICAO/IATA

## 15. REGULATORY INFORMATION

### Identification according to European directives:

The classification and identification was performed according to the European directives 67/548/EC and 1999/45/EC (including amendments) and consider the intended use of the product. A Chemical Safety Assessment was not conducted for substances included in this preparation.

R-PHRASES:	Microtiter strips	This product is not classified according to European laws.
	Standards	
	Antibody Solution	
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	
	Substrate	
	<hr/>	
	Stop solution	R34: Cause burns
S-PHRASES:	Microtiter strips	S 36: Wear suitable protective clothing.
	Standards	
	Antibody Solution	
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	
	Substrate	
	<hr/>	
	Stop solution	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

### EUROPEAN INVENTORY:

Sulfuric acid as ingredient of the stop solution not listed.

## 16. OTHER INFORMATION

Complete test of the R-PHRASES according to section 2 and 3:	Microtiter strips	Not applicable
	Calibrators	
	Enzyme conjugate	
	Washing buffer (10X)	
	Sample diluent	

Substrate

Stop solution

R34: Cause burns

R35: Cause severe burns.

Document history

Hint

Version 1: 2010-12-09 (creation and release)

The information is based on our present knowledge, but is not a guaranty of special product properties and establishes no legal relationship

<b>Date Adopted</b>	<b>2017-02-28</b>
<b>REF 5128-8</b>	<b>Streptomycin ELISA TEST KIT</b>



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