



## DIAGNOSTIC AUTOMATION, INC.

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# MATERIAL SAFETY DATA SHEET

## Biotin (Vitamin H) ELISA TEST KIT

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

#### 1.1. Identification of the product:

Product name: **Biotin (Vitamin H) ELISA TEST KIT**

Product classification: In-vitro diagnostics

Product number: 1741-8

#### 1.2. Manufacturer identification

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

Address: 21250 Califa Street, Suite 102 and 116, Woodland Hills,  
California 91367

Phone: (818) 591-3030 Fax: (818) 591-8383

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Website: <http://www.rapidtest.com>

Emergency Telephone number: Please contact the local hospitals.

## 2. Wash Buffer

The Wash Buffer contains no toxic or otherwise hazardous components

## 3. Standards, Sample Diluent

### 3.1 Chemical Characterization / Information on Ingredients

Character	<i>Product contains 0.1% Sodium Azide (NaN<sub>3</sub>).</i>
CAS-No. (NaN <sub>3</sub> )	<i>26628-22-8</i>
EG-Index-No.	<i>011-004-00-7</i>
EINECS-No.	<i>247-852-1</i>
Classification	<i>Toxic, irritant</i>

### 3.2 Hazards Identification

**Warnings:** *Toxic if swallowed. Substance slightly hazardous to the water supply.*

### 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>Wash area with soap and water.</i>
Ingestion	<i>Consult a physician or poison control centre.</i>
Inhalation	<i>N/A</i>
Changing Clothes	<i>Symptomatic treatment by a physician.</i>

### 3.4 Fire-Fighting Measures

Extinguishing Media	<i>No restriction</i>
Special Fire Fighting Procedure	<i>N/A</i>
Unusual Fire Fighting Procedure	<i>N/A</i>
Thermal Decomposition	<i>Dangerous decomposition is not anticipated</i>

### 3.5 Accidental Release Measures

Personal Protection	<i>Protective glasses, rubber gloves and 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 waste disposal methods.</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

Personal Protection *Protective glasses, rubber gloves and clothing. Thoroughly washing after use is recommended*

### 3.8 Physical and Chemical Properties

Physical State	<i>Liquid</i>	Flash Point	<i>N/A</i>
Color	<i>colorless</i>	Ignition Temperature	<i>N/A</i>
Odor	<i>N/A</i>	Explosion Limits	<i>N/A</i>
pH-Value	<i>6.0-7.0</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>

### 3.9 Stability and Reactivity

Hazardous Reactions *None known when used appropriately.*  
Hazardous Decomposition Products *Sodium azide may react with lead and copper plumbing. On disposal, flush with large amounts of water to minimize azide build-up.*

### 3.10 Toxicological Information

LD50 Oral (human)	<i>0.71 mg/kg</i>	LD50 Skin (rabbit)	<i>27 mg/kg</i>
LD50	<i>Not known</i>	LD50 Inhalation	<i>Not Known</i>

### 3.11 Ecological Information

Water Hazard Class 1 (own specification)

## 4. Standards

The conjugate contains 0.05 % *Sodium Azide (NaN<sub>3</sub>)*. For properties, handling and safety instructions see section 3.

## 5. PNPP (Substrate for AP Conjugate)

### 5.1 Chemical Characterization / Information on Ingredients

Character	<i>Product contains p-Nitrophenylphosphate (PNPP) and Trizma base</i>
CAS-No.	<i>4264-83-9 (PNPP) 77-86-1 (Trizma base)</i>
EINECS-No	<i>22-246-57 (PNPP) 201-064-4 (Trizma base)</i>
Classification	<i>Irritant (r36/38)</i>

## 5.2 Hazard Identification

**Warnings:** *The health risk is low. Irritant, handle with care.*

## 5.3 First Aid Measures

Eye Contact	<i>Promptly wash eyes with water or physiological salt water for at least 15 minutes. Remember to remove contact lenses. Seek medical advice.</i>
Skin Contact	<i>Remove contaminated clothing and flush skin with copious amounts of water and mild soap.</i>
Ingestion	<i>Wash out mouth with water provided person is conscious and drink plenty of water. Seek medical advice.</i>
Inhalation	<i>Go to fresh air. Keep at rest. If person feels queasy/discomfort: seek medical advice.</i>
Changing Clothes	<i>In case of severe contamination.</i>

## 5.4 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>

## 5.5 Accidental Release Measures

Personal Protection	<i>Provide for sufficient ventilation/respiratory protection. See protective equipment listed in section 5.7.</i>
Steps after Spillage	<i>Absorb spilled liquid with a cloth, inert material or liquid absorbent material. Read the directions from the producer. Flush the area with water.</i>
Waste Disposal Method	<i>Do not empty in drains. See section 5.11. If the product contaminates sewages, inform appropriate authorities in accordance with the local regulations.</i>

Show this Safety Data Sheet to a physician or emergency ward.

## 5.6 Handling and Storage

Handling	<i>See section 5.7.</i>
Storage	<i>Store between +2°C and +8°C.</i>
Other Precautions	<i>N/A</i>

## 5.7 Exposure Controls / Personal Protection

Personal Protection	<i>Protective glasses, gloves (nitrile rubber) when there is a risk of direct contact or splash and clothing.</i>
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## 5.8 Physical and Chemical Properties

Physical State	<i>Liquid</i>	Flash Point	<i>N/A</i>
Color	<i>Colorless or slight yellow</i>	Ignition Temperature	<i>N/A</i>

Odor	N/A	Explosion Limits	N/A
pH-Value	N/A	Vapor Pressure	N/A
Boiling Point	100 °C	Solubility in Water	Soluble
Viscosity	N/A		

## 5.9 Stability and Reactivity

Stability	<i>Stable. Non-combustable</i>
Conditions to avoid	<i>None</i>
Materials to avoid	<i>None</i>
Hazardous Decomposition Products	<i>None</i>

## 5.10 Toxicological Information

Routes of exposure	<i>May be absorbed through skin, by inhalation and ingestion.</i>
Inhalation	<i>Inhalation of atomized liquid may cause irritation of the upper respiratory tract.</i>
Skin	<i>Contact with the skin may cause irritation and redness.</i>
Eyes	<i>Contact with the eyes may cause irritation and redness.</i>
Ingestion	<i>Ingestion of large amounts can cause irritation with nausea and stomach ache.</i>
Long term toxicity	<i>None</i>

## 5.11 Ecological Information

Ecotoxicity	<i>None.</i>
Mobility	<i>Tris base is water soluble and is therefore spread quickly in the aquatic environment.</i>
Persistence/degradability	<i>According to computer calculation Trizma base is expected to be easily biodegradable.</i>
Bioaccumulative potential	<i>Trizma base: <math>\text{Log}K_{ow} &lt; 1</math> – no significant bioaccumulative effect (computer calculation)</i>
Other adverse effects	<i>None.</i>

## 6. Stop-Solution (1 M Sodium Hydroxide)

### 6.1 Chemical Characterization / Information on Ingredients

Character	<i>Product contains 1 M Sodium Hydroxide (NaOH)</i>
CAS-No.(NAOH)	<i>1310-73-2</i>
EINECS-No.	<i>215-185-5</i>
Classification	<i>Hazardous. Irritant</i>

### 6.2 Hazard Identification

**Warnings:** *Very caustic, toxic if swallowed and after contact with skin; handle with care.*

### 6.3 First Aid Measures

Eye Contact	<i>Promptly wash eyes with water for at least 15 minutes. Seek medical</i>
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Skin Contact	<i>advice. Promptly wash eyes with water for at least 15 minutes. Seek medical advice.</i>
Ingestion	<i>Drink a lot of water. Consult a physician or poison control centre.</i>
Inhalation	<i>N/A</i>
Changing Clothes	<i>In case of severe contamination.</i>

## 6.4 Fire-Fighting Measures

Extinguishing Media	<i>Dry chemical, carbon dioxide, polymer foam; do not use water.</i>
Special Fire Fighting Procedure	<i>Wear self-contained breathing apparatus and protective clothes.</i>
Unusual Fire Fighting Procedure	<i>Keep away from heat, sparks and flames.</i>
Thermal Decomposition	<i>Formation of toxic gases is possible.</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. Avoid any contact</i>
Storage	<i>Store between +2°C and +8°C.</i>
Other Precautions	<i>N/A</i>

## 6.7 Exposure Controls / Personal Protection

MAK-Value	<i>2 mg/m<sup>3</sup></i>
General measures	<i>Avoid contact with eyes and skin. Carefully wash hands after finishing work.</i>
Respiratory protection	<i>Avoid prolonged or repeated exposure.</i>
Personal Protection	<i>Protective glasses, gloves and clothing.</i>

## 6.8 Physical and Chemical Properties

Physical State	<i>Liquid</i>	Vapor Pressure	<i>N/A</i>
Color	<i>Colorless</i>	Boiling point	<i>N/A</i>
Odor	<i>None</i>	Flash Point	<i>N/A</i>
pH-Value	<i>12-14</i>	Solubility in the water	<i>soluble</i>

## 6.9 Stability and Reactivity

Hazardous Reactions	<i>Incompatibility with strong acid</i>
Hazardous Decomposition Products	<i>None</i>

## 6.10 Ecological Information

LD50 Oral	N/A	LD50 Skin	N/A
LD50	N/A	LD50 Inhalation	N/A

## 6.11 Toxicological Information

Water Hazard Class 1 (own specification)

## 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>2017-02-09</b>
 <b>1741-8</b>	<b>Biotin (Vitamin H) ELISA TEST KIT</b>

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