

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

ELISA Kit Assay (Product code containing #FI symbols)

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommend use** For research use only  
**Uses advised against** No information available

### 1.3 Supplier Identification

Assay Genie  
 25 Windsor Place  
 Dublin 2  
 Ireland  
 +353 15639720

For further information please contact: [techsupport@assaygenie.com](mailto:techsupport@assaygenie.com)

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

Kit Component	Physical Form	Hazardous Ingredient	Concentration	CAS No.
Biotinylated Detection Ab/Ag	Odorless and Colorless, Liquid	Proclin 300	0.05%	96118-96-6
Assay Diluent	Odorless and Colorless, Liquid	Proclin 300	0.05%	96118-96-6
HRP Conjugate	Odorless and Colorless, Liquid	Proclin 300	0.05%	96118-96-6
Standard	Odorless and White/Faint Yellow, Clear Powder/Solid	Proclin 300	0.05%	96118-96-6
Substrate	Odorless and Colorless, Liquid	H <sub>2</sub> O <sub>2</sub>	0.1%	7722-84-1
Stop Solution	Slightly Pungent and Colorless, Liquid	Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	2N/1M	7664-93-9

#### Irritating to eyes and skin

GHS Classification: Non-Hazardous

#### Stop Solution:

Skin Irritation Class 2

Eye Irritation Class 2

#### 2.2 Signal Word: WARNING

Causes skin irritation. Causes serious eye irritation.

Precautionary Statements -

P280 – Wash hands thoroughly after handling. Wear protective gloves/ protective clothing.

### Section 3: Composition/information on ingredients

**Product Name:** Enzyme Linked Immunosorbent Assay Reagent ELISA Reagent

Ingredient	Concentration	CAS No.	EC No.
Water	96.34%	7732-18-5	231-791-2
Sodium Chloride	0.8%	7647-14-5	231-598-3
Disodium Hydrogenorthophosphate	0.12%	7558-79-4	231-448-7
Potassium Chloride	0.02%	7447-40-7	231-211-8
Potassium Dihydrogen Orthophosphate	0.02%	7778-77-0	231-913-4
Tween20	0.05%	9005-64-5	500-018-3
BSA	0.2%	9048-46-8	--
Proclin 300	0.05%	96118-96-6	--
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	2%	7664-93-9	231-639-5
H <sub>2</sub> O <sub>2</sub>	0.1%	7722-84-1	231-765-0
Citric Acid	0.2%	77-92-9	201-069-1
3,3',5,5'-tetramethylbenzidine	0.1%	54827-17-7	259-364-6

### Section 4: First aid measures

#### 4.1 Description of first aid measures

<b>General advice</b>	If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water. Drink plenty of water.

**4.2 Most important symptoms and effects, both acute and delayed**

Main symptoms see section 2.2.

**4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physician Treat symptomatically.

## Section 5: Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which shall not be used for safety reasons**

No information available.

### 5.2 Special hazards

None in particular.

### 5.3 Advice for fire-fighters

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## Section 6: Accidental release measurements

### 6.1 Personal precautions

Use personal protective equipment.  
Avoid contact with the skin and the eyes.  
Evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

### 6.3 Methods for containment

Prevent further leakage or spillage if safe to do so

### 6.4 Methods for cleaning up

Soak up with inert absorbent material.  
Pick up and transfer to properly labeled containers.  
After cleaning, flush away traces with water.  
Prevent product from entering drains.

## Section 7: Handling and storage

### 7.1 Advice on safe handling

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 7.2 Storage conditions

Keep out of the reach of children.  
 Keep container tightly closed.  
 Keep containers tightly closed in a cool, well-ventilated place.  
 Keep in properly labeled containers.

### 7.3 Specific end use

**Specific use(s)** No information available.  
**Exposure scenario** No information available.

## Section 8: Exposure controls/personal protection

### 8.1 Personal Protection

<b>Eye/face protection</b>	Tightly fitting safety goggles. Face-shield.
<b>Skin and body protection</b>	No special protective equipment required
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Colourless transparent liquid
<b>Odour</b>	Weak odour
<b>Initial Boiling</b>	100°C
<b>Flash point</b> (closed cup)	>96°C °C
<b>pH Value</b>	7.5(25°C,50.0g/L)
<b>Solubility</b>	Miscible in water
<b>Density/Relative</b>	1.008×10 <sup>3</sup> kg/m <sup>3</sup> (20.0°C ±0.1°C)
<b>Density Viscosity:</b>	1.074mm <sup>2</sup> /s (20.00°C±0.02°C, kinematic viscosity)

## Section 10: Stability and reactivity

### 10.1 Reactivity

No information available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Precautionary Statements

Wash hands thoroughly after handling. Wear protective gloves, clothing and eye and face protection.

### 10.4 Conditions to avoid

Bases, Halides, Metals, Alkalis, Acetonitrile

### 10.5 Incompatible materials

Most metals, oxidizers, reducers, bases, metal carbonates, cyanides, sulfides, carbides, oxides, metal acetylides, hydrides, halogens, organic or combustible materials, perchlorates, acetonitrile, permanganates, alcohols, picrates.

### 10.6 Hazardous decomposition products

Products formed under fire conditions: Oxides of Sulphur, Hydrogen gas.

### 10.7 Hazardous polymerization

Hazardous polymerization does not occur.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

<b>General advice</b>	If symptoms persist, call a physician.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Clean mouth with water. Drink plenty of water.

Chemical Name	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Sodium chloride	3000mg/kg (Rat)	>10000mg/kg (Rabbit)	>42000mg/m <sup>3</sup> /1H (Rat)
Sodium dihydrogen orthophosphate	17000mg/kg (Rat)	-	-
Potassium chloride	2600mg/kg (Rat)	-	-
Potassium dihydrogen orthophosphate	-	>4640mg/kg (Rabbit)	-

**Chronic toxicity**

<b>Corrosivity</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Neurological effects</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Mutagenic effects</b>	No information available.
<b>Target Organ Effects</b>	No information available.

**Section 12: Ecological information**

**12.1 Toxicity**

The environmental impact of this product has not been fully investigated.

**Section 13: Disposal considerations**

***Waste disposal methods***

Contact a licensed professional waste disposal service to dispose of this material. This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult the appropriate state, regional, or local regulations for additional requirements.

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal
<b>Other information</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

#### Section 14: Transport information

RID/ADR: Non-Hazardous  
IATA: Non-Hazardous  
ADR: Non-Hazardous

#### Section 15: Regulatory information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

#### Section 16: Other information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislation. The absence of warning must not, under any circumstance be taken to mean that no hazard exists.

#### **Disclaimer**

***The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.***

***\*End Of MSDS\****