

KIT**1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY****1.1 Product identifier**

Product Name: Noradrenaline ELISA

Catalog #: KAPL10-0200

Kit Components:	Adhesive foil	Controls
	Wash Buffer	Acylation Buffer
	Enzyme Conjugate	Acylation Reagent
	Substrate	Assay Buffer
	Stop Solution	Coenzyme
	Microtiterwells	Enzyme
	Antiserum	Extraction Buffer
	Adjustement Buffer	Extraction Plate
	Standards	Hydrochloric acid

1.2 Intended Use

For In Vitro Diagnostic Use. The product is intended for professional use.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: tech.support@diasource.be**1.4 Emergency telephone**

DIAsource (only office hours): +32 (0)10/84.99.23

Centre Anti-Poisons (BE) 070 245 245

Please refer to your local Anti-Poison Center!

2 OTHER INFORMATION**2.1 Labeling of microtiterplate:**

Each well can only be used once

**2.2 Non dangerous component**

Not listed components contain no hazardous substance in concentrations to be declared, a labeling is not required.

STOP SOLUTION

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Stop Solution

Catalog #: Component of the kit mentioned on the first page

1.2 Intended Use

laboratory reagent / Immunoassay. The product is intended for professional use.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: tech.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008
Corrosive to metals, Category 1, H290
Skin corrosive, Category 1A, H314

2.2 Label elements

REGULATION (EC) No 1272/2008



Hazard pictograms:

Signal word: Warning

Hazard statements:

H290 May be corrosive to metals.

Precautionary statements:

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

2.3 Other hazards

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Composition / information on ingredients

CAS: 7664-93-9 sulphuric acid $\geq 1\% - < 5\%$

H290; H314

Additional information

For the full text of the H-Statements mentioned in this section, see section 16.

4 FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: fresh air, consult doctor in case of complaints.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for fire fighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental Precautions

No special precautionary measures necessary.

6.3 Methods and material for containment and cleaning-up

Observe possible material restrictions! Take up with liquid-absorbent and neutralizing material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about possible material restrictions see sections 7 and 10 and about waste treatment see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling:

Observe label precautions.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed and dry.

7.3 Specific Use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Respiratory protection:

In case of good room ventilation, not necessary.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Material of gloves:

Chemical protection gloves are to be selected according to the concentration and quantity of the hazardous substance concentration and quantity in workplace.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Eye protection:

Tightly sealed goggles

Body protection:

lab coat

9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	odourless
Odour	Threshold Not applicable
pH	ca. 1.0 at 20 °C
Melting point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Density	ca. 1.02 g/cm ³ at 20 °C
Relative density	No information available
Water solubility	at 20 °C soluble
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	Not classified as explosive
Oxidizing properties	none

9.2 Other information

Corrosion: May be corrosive to metals.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to Avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous Decomposition Products

No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No information available.

Skin corrosion/irritation

causes skin irritation

Serious eye damage/irritation

causes eye irritation

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.2 Additional information

On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care.

Handle in accordance with good industrial hygiene and safety practice.

12 ECOLOGICAL INFORMATION**12.1 Toxicity**

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulation

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

No further relevant information available.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of packaging according to applicable local, state, and federal regulations.

Packaging's that may not be cleansed are to be disposed of in the same manner as the product.

14 TRANSPORT INFORMATION

This product is part of a kit. Information in this section refers to the kit as a whole.

UN No

3264

UN Proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANICS, N.O.S.

Class

8

Packing group

III

Environmental hazards

None.

Special precautions for user

None.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture****EU regulations**Major Accident Hazard: SEVESO III

Not applicable

Employment restrictions:

Observe employment restrictions in accordance with the youth employment protection regulations (94/33/EC).

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH).

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

ACYLATION REAGENT

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Acylation Reagent

Catalog #: Component of the kit mentioned on the first page

1.2 Intended Use

laboratory reagent / Immunoassay. The product is intended for professional use.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: tech.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquid, Category 3, H226
Acute toxicity, Category 4, Inhalation, H332
Acute toxicity, Category 4, Dermal, H312
Eye irritation, Category 2, H319
Reproductive toxicity, Category 1B, H360D

2.2 Label elements

REGULATION (EC) No 1272/2008



Hazard pictograms:

Signal word: Danger

Hazard statements:

H360D May damage the unborn child.

H226 Flammable liquid and vapor.

H312 + H332 Harmful in contact with skin or if inhaled.

H319 Causes serious eye irritation.

Precautionary statements:

P201 Obtain special instructions before use.

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

2.3 Other hazards

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Mixture****Composition / information on ingredients**

CAS: 68-12-2 N,N-dimethylformamide 25 - 50 %
H226; H332; H312; H319; H360D

Additional information

For the full text of the H-Statements mentioned in this section, see section 16.

4 FIRST AID MEASURES**4.1 Description of first aid measures**

General advice: First aider needs to protect himself

After inhalation: fresh air. Immediately call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water / shower. Consult a physician.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 FIRE FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), wry powder, water.

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of: nitrogen oxides

5.3 Advice for fire fighters

Special protective equipment for firefighters:

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Advice for non-emergency personnel:

Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental Precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning-up

Observe possible material restrictions! Take up with liquid-absorbent and neutralizing material.

Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about possible material restrictions see sections 7 and 10 and about waste treatment see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling:

Work under hood. Do not inhale substance / mixture.

Avoid generation of vapours / aerosols.

Observe label precautions.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed and dry.

Keep away from open flames, hot surfaces and sources of ignition.

7.3 Specific Use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controlsEngineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures:General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Respiratory protection:

In case of good room ventilation, not necessary.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Material of gloves:

Chemical protection gloves are to be selected according to the concentration and quantity of the hazardous substance concentration and quantity in workplace.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Eye protection:

Tightly sealed goggles

Body protection:

lab coat

9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	amine-like
Odour Threshold	0.329 ppm
pH	7 at 20 °C
Melting point	No information available
Boiling point/boiling range	No information available
Flash point	>60 °C

Evaporation rate	No information available
Flammability (solid, gas)	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Density	ca. 1.07 g/cm ³ at 20 °C
Relative density	No information available.
Water solubility	miscible at 20 °C
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other information

No other data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to Avoid

Heat, flames and sparks.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous Decomposition Products

In the event of fire: see section 5.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 oral rat 3,010 mg/kg

LD50 dermal rabbit 1,500 mg/kg

Skin corrosion/irritation

slight irritation

Serious eye damage/irritation

Severe eye irritation.

Respiratory or skin sensitisation

Irritations of the mucous membranes.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.2 Additional information

On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care.

Handle in accordance with good industrial hygiene and safety practice.

12 ECOLOGICAL INFORMATION**12.1 Toxicity**

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulation

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of packaging according to applicable local, state, and federal regulations.

Packaging's that may not be cleansed are to be disposed of in the same manner as the product.

14 TRANSPORT INFORMATION

This product is part of a kit. Information in this section refers to the kit as a whole.

UN No

No dangerous good in sense of this transport regulation.

UN Proper shipping name

No dangerous good in sense of this transport regulation.

Class

No dangerous good in sense of this transport regulation.

Packing group

No dangerous good in sense of this transport regulation.

Environmental hazards

No.

Special precautions for user

No.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard: SEVESO III

Not applicable

Employment restrictions:

Observe employment restrictions in accordance with the youth employment protection regulations (94/33/EC).

Substances of very high concern (SVHC):

This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH).

Contains: N,N-dimethylformamide

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H360D May damage the unborn child.

H226 Flammable liquid and vapor.

H312 + H332 Harmful in contact with skin or if inhaled.

H319 Causes serious eye irritation.

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

MSDS established : 2020-02-17

Revision number : 3