

MATERIAL SAFETY DATA SHEET
TECO® Hyaluronic Acid ELISA-Kit RUO

Doc. No. TE1018-2

Date: 25-Apr-2022

Section 1 - Product and Company Identification**1.1 Manufacturer Information**

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1.2 Product Information

Product Name: TECO® Hyaluronic Acid ELISA-Kit (Catalog #: TE1018)

For research use only
For professional use only

Product form: Mixture (kit)

Intended Use: TECO® Hyaluronic Acid ELISA-Kit is a 96 well, enzyme immunoassay for the quantitative determination of hyaluronic acid in plasma and serum. Do not use for diagnostic purposes.

Components: Microtiter Plate, Sample Diluent, HA Binding Protein-HRP Conjugate, TMB Substrate, Concentrated Wash Buffer, Stop Solution, Standards A → F, Controls 1 and 2, adhesive cover for microtiter plate

Section 2 – Hazards Identification**2.1 Classification according to (EC) No. 1272/2008 (CLP)**

Not classified

2.2 Label elements according to (EC) No. 1272/2008

EUH phrases: EUH210 see section 16 for full text

2.3 Other Hazards

This kit contains animal proteins and animal sera and should be treated as a potential biohazard. All animal sera have been tested to ensure the absence of infectious agents, but all materials should be handled as though capable of transmitting infectious disease and disposed of accordingly.

Section 3 – Composition / Information on Ingredients**3.1 Substance**

Not applicable


3.2 Mixtures

The hazards identified with this product are those associated with the following component (s)

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Ingredient Name	Pictogram	Kit Component(s)	%	Product identifier	Classification according to (EC) 1272/2008
TMB 3,3',5,5'-Tetramethylbenzidine (TMB, non-carcinogenic analog of benzidine)		Substrate	<0,1 w/v	CAS: 54827-17-7 EC: 259-364-6	H315 H319 H335 Skin Irrit. 2 Eye Irrit. 2 STOT SE3
5-Bromo-5-nitro-1,3-dioxane (BND)		– Standards A → F – Controls 1 & 2 – Sample diluent – Concentrated Wash Buffer 50x	0,06 w/v	CAS: 30007-47-7 EC: 250-001-7	H302 H315 Acute Tox. 4 Skin Irrit. 2
Hydrogen Chloride	 Warning	Stop solution 1M HCL	3,3 w/v	CAS: 7647-01-0 EC: 231-595-7	H290 H314 H335 Skin Corr. 1B Met. Corr 1 STOT SE 3

Section 4 – First Aid Measures

4.1 Description of first aid measures

General

If you feel unwell, ask for medical attention (show the labels where possible).

After skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by a warm water rinse.

After eye contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do and continue rinsing.

After Inhalation

If breathing becomes difficult, remove victim to fresh air and keep in a rest position comfortable for breathing.

After Ingestion

If patient is conscious, wash out mouth with water and give at least 3 – 5 glasses of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions or normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

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Section 5 – Fire Fighting Measures**5.1 Suitable extinguishing media**

Use carbon dioxide, dry chemical powder or appropriate foam. Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

None known

5.3 Advice for fire fighters

Use water spray or fog for cooling exposed containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures**6.1 Personal precautions****General measures**

Wear appropriate personal protective equipment, including but not limited to protective clothing, safety glasses and protective gloves.

For non-emergency personnel

Evacuate unnecessary personnel

For emergency responders

Equip cleanup team with proper protection and ventilate area

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent any reagents from entering drains and other release to the environment.

6.3 Methods and material for containment and cleaning up

Wipe up liquid spills with absorbent paper. For solid spills, sweep up without raising dust. Once pick up is complete wash site with detergent and water. Decontaminate with a suitable disinfectant solution and keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections 8 and 13.

Section 7 – Handling and Storage**7.1 Precautions for safe handling**

Material of human origin has been tested and found non-reactive for HIV 1 and 2 and HCV antibodies and HBsAg. All animal sourced material has been obtained from animals certified as healthy and free from disease. However, all potentially biohazardous components should be considered as potentially infectious. Level II containment should be applied.

Do not eat, drink or smoke in the laboratory. Do not pipette by mouth. Avoid inhalation. Avoid skin and eye contact. Wear appropriate protective clothing as described in subsection 8.2. Avoid the use of needles or other sharp implements. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Avoid release into drains; in case of accidental spillage, refer to section 6.

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7.2 Conditions for safe storage, including any incompatibilities

Store in original container and keep containers tightly closed when not in use. Store in a dry place in the box supplied at a temperature between +2 and +8°C.

7.3 Specific end use(s)

The TECO® Hyaluronic ELISA-Kit is intended for professional use only and to be used solely for the purpose as specified in subsection 1.2. Refer to kit instructions for details.

Section 8 – Exposure Controls and Personal Protection

8.1 Control parameters

No occupational exposure limits exist for any kit components. However, the following limits apply to component ingredients: hydrochloric acid (see subsection 3.2 for components containing these substances):

Hydrochloric acid: CAS number 7647-01-0		
Control Parameters	Value	Basis
TWA	3.0 mg/m ³ 8.0 mg/m ³	Germany: Arbeitsplatzgrenzwert (AGW) Europe: Commission Directive 2009/161/EU
TWA	7.0 mg/m ³ 7.5 mg/m ³	USA: NIOSH Recommended Exposure Limits (REL) USA: ACGIH Threshold Limit Values (TLV)

8.2 Exposure controls

The following controls should be followed as appropriate to the situation and the quantities handled.

Hand protection

Wear suitable gloves (nitrile rubber). The exact break through time has to be provided by the manufacturer of the gloves and has to be observed.

Hygiene measures

General laboratory practice (see section 7).

Respiratory protection

Not required

Eye protection

Not required

Skin and body protection

Not required

Other equipment

Eye bath and safety shower

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Section 9 – Physical and Chemical Properties
9.1 Information on the basic physical and chemical properties

Kit component	Appearance	Odor	pH	Solubility in Water
Microtiter Plate	Colorless polystyrene microplate	None	N/A	Not soluble
Sample Diluent	red liquid	None	~8.2	Soluble
HA Binding Protein-HRP Conjugate	Amber orange liquid	None	~6.1	Soluble
TMB Substrate	Colorless to slight blue liquid	None	~3.7	Soluble
Concentrated Wash Buffer	Colorless liquid	None	~7.1	Soluble
Stop Solution (1M HCl)	Colorless liquid	None	<1.0	Soluble
Standards and Controls	Colorless to pale yellow	None	~7.4	Soluble

There is no information available for the following categories: odor threshold, melting/freezing point, initial boiling point/boiling range, flash point, evaporation rate, flammability (solid, gas), upper/lower flammability or explosive limits, vapor pressure, vapor density, relative density, partition coefficient, auto ignition temperature decomposition temperature, viscosity, explosive properties or oxidizing properties.

9.2 Other information

All liquid components are miscible with water in all proportions.

Section 10 – Stability and Reactivity
10.1 Reactivity

No dangerous reactions known under normal conditions or use

Hydrochloric acid has a corrosive effect. There is no data available on the other substances.

10.2 Chemical stability

All components have been found stable for stated shelf life when stored under the conditions as recommended in section 7.

10.3 Possibility of hazardous reactions

No hazardous reactions known for kit components although, hazardous reactions occur for the following substances listed in subsection 3.2:

Ingredient	Hazardous Reaction
Hydrochloric acid	Violent reactions possible with acetonitrile, organic nitro compounds, potassium permanganate, metal halogenates, perchlorates and alkali metals. Contact with metals liberates toxic gas.

10.4 Conditions to avoid

No conditions to avoid known

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10.5 Incompatible materials

No incompatible materials known

10.6 Hazardous decomposition products

No decomposition products are formed if kit is stored and used under the specified storage and handling conditions

Section 11 – Toxicological Information

11.1 Information on toxicological effects

TMB (S)

3,3',5,5'-Tetramethylbenzidine: CAS no 54827-17-7 toxicological information

- LD50 Intra peritoneal Mouse: 135 mg/kg
- LD50 Oral Quail: >316 mg/kg

Stop Solution

1M HCl: CAS no 7647-01-0 toxicological information

- | | |
|--|---|
| – Acute toxicity: | no data available |
| – Skin corrosion/irritation: | no data available |
| – Serious eye damage/eye irritation: | no data available |
| – Respiratory or skin sensitization: | no data available |
| – Germ cell mutagenicity: | no data available |
| – Carcinogenicity | IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid) |
| – Reproductive toxicity: | no data available |
| – Specific target organ toxicity - single exposure | no data available |
| – Specific target organ toxicity - repeated exposure | no data available |
| – Aspiration hazard | no data available |

11.2 Route of Exposure

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through skin.

Eye Contact: Causes eye burns.

Ingestion: May be harmful if swallowed

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 12 – Ecological Information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No additional information available.

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12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

No additional information available. It is, however, recommended that reagents do not enter drains in large quantities.

Section 13 – Disposal Considerations**13.1 Waste treatment methods**

Waste residues: human origin wastes must be disposed of in conformity with existing local regulations.

Soiled packaging: Dispose of in accordance with existing regulations. Contaminated containers must be treated the same way as the respective chemicals. Waste material packaging code (2001/118/EC): 15 01 10 (packaging containing of or contaminated by dangerous substances).

Section 14 – Transportation Information

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Transport of this product can be carried out at ambient temperature but in the event of delays store at 2 – 8°C with all reagents contained within the packaging provided.

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

See sections 6 to 8.

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

Not applicable.

Section 15 – Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Not known

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15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the substances of the mixture by the supplier.

Section 16 – Other Information**General**

This MSDS has been compiled in accordance with Commission Regulation (EU) No. 453/2010.

Full text of H and EUH statements

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H410	Very toxic to aquatic life with long lasting effects

EUH210 Safety data sheet available on request

Abbreviations

STOT Special Target Organ Toxicity

Disclaimer

For research use only!

The above information is believed to be correct but does not purport to be all-inclusive and is provided for guidance only. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TECOmedical AG shall not be held liable for any damage or injury resulting from handling or from contact with the above product and assumes no responsibility to the accuracy or completeness of the data contained herein. It is the responsibility of the purchaser to ensure that laboratory workers who use this product are aware of its hazards and take all necessary precautions to prevent contact, ingestion, inhalation or any other mode of exposure.