

**Safety Information**  
**Human Calcitonin (CT) ELISA**

Revision Date: 7.4.2016

The RIS0019R Human Calcitonin (CT) ELISA is a high sensitivity immunoenzymetric assay for the measurement of human calcitonin in serum.

For professional use only. Users should have a thorough understanding of the Product Data Sheet prior to their use of this kit.

**Kit Components:**

- A) Microtiterplate
- B) Conjugate HRP labelled anti-CT
- C) Conjugate buffer
- D) Calibrator 0 to 5
- E) Controls 1 or 2
- F) Free serum
- G) Buffer (serum free)
- H) Wash solution
- I) Chromogenic TMB solution
- J) Stop Solution

Stop Solution containing hydrochloric acid is a hazardous mixture according to CLP Regulation (EC) as amended.

Safety Data Sheet for Hydrochloric Acid < 5% according to actual Regulations (EC/EU) is attached.

The other components do not contain any hazardous mixture according to CLP Regulation (EC) as amended.

**MATERIAL SAFETY DATA SHEET**

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

**Hydrochloric Acid < 5%**

Date of issue: 30.7.2015

Supersedes date:

**SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Trade name:** Hydrochloric Acid < 5%

**Additional identification:** solution with hydrochloric acid concentration < 5% w/w

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Stop solution for the ELISA kit.

**1.3 Details of the supplier of the safety data sheet**

BioVendor - Laboratorní medicína a.s.

Karásek 1767/1

621 00 Brno

Czech Republic

Identification number: 63471507

Tel: +420 549 124 185

E-mail: info@biovendor.com

**1.4 Emergency telephone number**

Toxicology information centre, Na Bojišti 1, 128 21 Prague, Czech Republic, Tel: +420 224 919 293 or +420 224 915 402 (non-stop service).

**SECTION 2 HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Corrosive to metals (Category 1), H290

For full text of H-phrases see section 16.

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Signal word

Warning

Hazard statement(s)

H290

Precautionary statement(s)

none

Supplemental hazard statement

none

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Mixtures**

Chemical characterization: Product does not burn

Formula: HCl

Molecular weight: 36.46 g/mol

| <b>Ingredient</b> | <b>Conc. %</b> | <b>EINECS</b> | <b>CAS-Nr.</b> | <b>Index-Nr.</b> |
|-------------------|----------------|---------------|----------------|------------------|
| Hydrochloric acid | ≥1 - < 5       | 231-595-7     | 7647-01-0      | 017-002-01-X     |

**Classification according to regulation 1272/2008/EC:**

Met. Corr. 1; Skin Corr. 1B; STOT SE 3; H290, H314, H335

For full text of H-phrases see section 16.

**SECTION 4 FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**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.

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**5.2 Special hazards arising from the substance or mixture**

Hydrogen chloride gas

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

The product itself does not burn.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7 HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

**7.3 Specific end use(s)**

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

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

Components with workplace control parameters

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#### 8.2 Exposure controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Do not let product enter drains.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |                   |
|--|-------------------|
| Appearance                                   | liquid form       |
| Odour  | No data available |
| Odour Threshold                              | No data available |
| pH   | No data available |
| Melting point/freezing point                 | No data available |
| Initial boiling point and boiling range      | No data available |
| Flash point                                  | Not applicable    |
| Evaporation rate                             | No data available |
| Flammability (solid, gas)                    | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure                              | No data available |
| Vapour density                               | No data available |
| Relative density                             | No data available |

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|  |                   |
|--|-------------------|
| Water solubility                       | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature              | No data available |
| Decomposition temperature              | No data available |
| Viscosity                              | No data available |
| Explosive properties                   | No data available |
| Oxidizing properties                   | No data available |

**9.2 Other safety information**

No data available

**SECTION 10 STABILITY AND REACTIVITY**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Bases, Amines, Alkali metals, Metals, hexalithium disilicide, permanganates, e.g. potassium permanganate, Fluorine

**10.6 Hazardous decomposition products**

Other decomposition products - No data available

**SECTION 11 TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)

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**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

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12 ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

**SECTION 13 DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product

**SECTION 14 TRANSPORT INFORMATION**

**14.1 UN number**

ADR/RID: 1789 / IMDG: 1789 / IATA: 1789

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**14.2 UN proper shipping name**

ADR/RID: HYDROCHLORIC ACID / IMDG: HYDROCHLORIC ACID / IATA: Hydrochloric acid

**14.3 Transport hazard class(es)**

ADR/RID: 8 / IMDG: 8 / IATA: 8

**14.4 Packaging group**

ADR/RID: III / IMDG: III / IATA: III

**14.5 Environmental hazards**

ADR/RID: no / IMDG Marine pollutant: no / IATA: no

**14.6 Special precautions for user**

No data available

**SECTION 15 REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16 OTHER INFORMATION**

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**Full text of H-Statements referred to under sections 2 and 3.**

**H290** May be corrosive to metals.

**H314** Causes severe skin burns and eye damage.

**H335** May cause respiratory irritation.

Met. Corr. Corrosive to metals

Skin Corr. Skin corrosion

STOT SE Specific target organ toxicity - single exposure

**Note:**

The safety data sheet contains data necessary for ensuring occupational health and safety and protection of the environment. The given data correspond to the current state of knowledge and experience and comply with valid legal regulations. The data cannot be considered a guarantee that the specific use of the product will be appropriate.