The RTC017R Testosterone free in Saliva ELISA is an enzyme immunoassay for the quantitative measurement of free active testosterone in saliva.

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) Standards (Standard 0-5)
C) Controls (Control 1-2)
D) Enzyme Conjugate
E) Wash Solution
F) Substrate Solution
G) Stop Solution

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

Safety Data Sheet for Hydrochloric Acid < 10% according to actual Regulations (EC/EU) is attached.

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

**EUH208**

Some components contain 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (ProClin 300) in concentration < 0.0015%. May produce an allergic reaction.
MATERIAL SAFETY DATA SHEET

Hydrochloric Acid < 10%

Date of issue: 25.4.2019
Supersedes date: 

SECTION 1  IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING

1.1 Product identifier
Trade name: Hydrochloric Acid < 10%
Additional identification: solution with hydrochloric acid concentration < 10% 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.
SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical characterization: Product does not burn
Formula: HCl
Molecular weight: 36.46 g/mol

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Conc. %</th>
<th>EINECS</th>
<th>CAS-Nr.</th>
<th>Index-Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid</td>
<td>&lt; 10</td>
<td>231-595-7</td>
<td>7647-01-0</td>
<td>017-002-01-X</td>
</tr>
</tbody>
</table>

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. 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.
Fire may cause evolution of: Hydrogen chloride gas

5.3 Advice 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.

5.4 Further information
Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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. Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container (no metal) 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

Hydrochloric Acid

<table>
<thead>
<tr>
<th>EH40 WEL</th>
<th>Short Term Exposure</th>
<th>5 ppm</th>
<th>Form of exposure: Gas and aerosol mists.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Limit (STEL):</td>
<td>8 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Time Weighted</td>
<td>1 ppm</td>
<td>Form of exposure: Gas and aerosol mists.</td>
</tr>
<tr>
<td></td>
<td>Average (TWA):</td>
<td>2 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL)

Hydrochloric Acid

<table>
<thead>
<tr>
<th>Worker DNEL, acute</th>
<th>Local effects</th>
<th>inhalation</th>
<th>15 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worker DNEL, long term</td>
<td>Local effects</td>
<td>inhalation</td>
<td>8 mg/m³</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

Predicted No Effect Concentration (PNEC)

Hydrochloric Acid

| PNEC Fresh water | 0.036 mg/l |
| PNEC Marine water | 0.036 mg/l |
| PNEC Aquatic intermittent release | 0.045 mg/l |
| PNEC Sewage treatment plant | 0.036 mg/l |

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
MATERIAL SAFETY DATA SHEET

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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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid form</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1 at 20°C</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>ca.1.03 g/cm³ at 20°C</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble et 20°C</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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

Generates dangerous gases or fumes in contact with:
Metals
Violent reactions possible with:
The generally known reaction partners of water.

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
in the event of fire: See section 5.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
No data available
Skin corrosion/irritation
Possible damages: slight irritation
Serious eye damage/eye irritation
Possible damages: slight irritation
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)
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
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.
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

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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
Additional ecological information
Discharge into the environment must be avoided.

SECTION 13  DISPOSAL CONSIDERATIONS

13.1  Waste treatment methods
Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging
Dispose of as unused product

SECTION 14  TRANSPORT INFORMATION

14.1  UN number
ADR/RID: 1789 / IMDG: 1789 / IATA: 1789

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
Hydrochloric Acid < 10%

14.6 Special precautions for user
ADR/RID: E / IMDG: EmS (F-A S-B) / IATA: no

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.