

**Product Name:** TritEx® Blood DNA Extraction Kit & TritEx® HPV DNA Extraction Kit**SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier:**

Substance name: Elution Buffer (DEB); Elution Buffer (VEB)

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

Recommended restrictions on use: For professional users only.

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

Manufacturer / Supplier: TritaGene Biotech Co.  
Street address / P.O. Box: Pajooresh Blvd., Hakim (Hamedani) Hwy.  
Country ID / Postcode / Place: Iran  
Telephone number: +98 (21) 44 18 01 81-2  
Telefax: +98 (21) 44 18 57 14  
E-Mail: tritagene@gmail.com  
National contact: TritaGene Biotech Co.

**1.3 Emergency Telephone Number**Opening Hours: +98 (21) 44 18 01 82  
08-17 Sat. to Wed., Only available during work hours.**SECTION 2: Hazards Identification****2.1 Classification of the substance or mixture** Not classified**2.1.1 classification according to regulation (EC) No 1272/2008 (CLP)****2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

**Hazard pictograms:** No symbol**Signal word:** No signal word.**Hazard statements:** Not applicable**Precautionary statements:** Not applicable**2.3 Other hazards** None**SECTION 3: Composition/Information on Ingredients**

**3.1 Substances**

Substances name: No data available  
 INDEX No.: No data available  
 EC NO.: No data available  
 REACH No.: No data available  
 CAS No.: No data available  
 Purity: No data available  
 Synonyms: No data available  
 Stabilizers: No data available  
 Hazard impurities: No data available

**3.2 Mixtures**

Description of the mixture: Mixture Buffer solution containing of Tris and distilled water

Name of substance	Identifier	Pictograms
Tris	CAS No.: 77-86-1	Not classified

**SECTION 4: First Aid Measures**

**4.1 Description of first aid measures**

**If inhaled:** Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

**In case of skin contact:** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**If swallowed:** If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

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

Symptoms: No information available.

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

Notes for doctor: Treat symptomatically

**SECTION 5: Fire-Fighting Measures**

**5.1 Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing :

No information available

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

Keep product and empty container away from heat and sources of ignition.

**5.3 Advice for fire-fighters**

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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**

Ensure adequate ventilation. Use personal protective equipment as required.

**6.2 Environmental precautions**

See Section 12 for additional Ecological Information.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## SECTION 7: Handling and Storage

**7.1 Precautions for safe handling**

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

Ingredients with workplace control parameters

**8.2 Personal protection equipment:**

Eye and face protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

skin and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**SECTION 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties:**

a) Physical State:	Liquid
b) Appearance:	Clear
c) Odor:	Odorless
d) Odor threshold:	No data available
e) pH:	6.5-7.5
f) Melting point / freezing point:	No data available
g) Initial boiling point and boiling range:	No data available
h) Flash point:	No data available
i) Evaporation rate:	No data available
j) Upper / lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Solubility(ies)	Soluble in water
o) Partition coefficient: n-octane/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) oxidizing properties	No data available

**9.2 Other information**

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**SECTION 10: Stability and Reactivity**

**10.1 Reactivity:**

None known, based on information available

**10.2 Chemical stability:**

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

**10.3 Possibility of hazardous reactions:**

Violent reactions possible with: Strong oxidizing agents  
Hazardous decomposition products formed under fire conditions.  
Keep away from oxidizing agents, and acidic or alkaline products.

**10.4 Conditions to avoid:**

Incompatible products.

**10.5 Incompatible materials:**

Strong oxidizing agents, Strong acids

**10.6 Hazardous decomposition products:** Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Ammonia

**SECTION 11: Toxicological Information****11.1 Information on toxicological effects**

<b>Acute toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

**SECTION 12: Ecological Information**

<b>12.1 Ecotoxicity</b>	Do not empty into drains. Do not flush into surface water or sanitary sewer system.
<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bio accumulative potential</b>	No data available
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT and vPvB assessment</b>	No data available
<b>12.6 Other adverse effects</b>	No data available

**SECTION 13: Disposal Considerations**

**13.1 Waste treatment methods****Disposal methods Waste from residues:**

Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.

**Contaminated packaging:**

Dispose of as unused product. Do not re-use empty containers.

**SECTION 14: Transport Information****14.1. UNRTDG**

Not regulated

**14.2. IATA-DGR**

Not regulated

**14.3. IMDG-Code**

Not regulated

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

Not regulated

**14.5. Domestic regulation**

Not regulated

**SECTION 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- COUNCIL DIRECTIVE on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (67/548/EEC)
- DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
- German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung -GefStoffV)
- TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products

**15.2 Chemical safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: Other Information****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.