

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

Substance name: Washing buffer 2 (PWB2); Washing buffer 2 (VWB2)

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: Pajooheh 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 NumberOpening 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**

Flammable liquid: Category 2

2.1.1 classification according to regulation (EC) No 1272/2008 (CLP)

Serious eye damage/eye irritation: Category 2

2.2 Label elementsLabelling according to Regulation (EC) No 1272/2008
[CLP/GHS]**Hazard pictograms:****Signal word:**

Danger

Hazard statements:

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H315 Causes skin irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing vapors.
P264: Wash your hand thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P403+P233: Store in a well ventilated place. Keep container tightly closed.

P501: Dispose of contents in accordance with national regulation.

2.3 Other hazards

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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 aqueous solution of Tris and Ethanol.

Name of substance	Identifier	Pictograms
Ethanol	CAS No.: 64-17-5	
Tris	CAS No.: 77-86-1	Not classified

SECTION 4: First Aid Measures

4.1 Description of first aid measures

If inhaled:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
In case of skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.
In case of eye contact:	Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.
If swallowed:	Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Vomiting, Abdominal pain, Breathing difficulties, Vertigo, Drowsiness, Narcosis, Loss of righting reflex, and ataxia

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media:

co-ordinate firefighting measures to the fire surroundings
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing:

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for fire-fighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.
Keep away from sources of ignition - No smoking.

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.
Recommended storage temperature: 15 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Personal protection equipment:

Eye and face protection:

Use safety goggle with side protection.

skin and body protection:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Respiratory protection:

Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

a) Physical State:	Liquid
b) Appearance:	Colorless
c) Odor:	like: - alcohol
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)	No data available
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:

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

10.2 Chemical stability:	The product is chemically stable under standard ambient conditions (room temperature).
10.3 Possibility of hazardous reactions: Exothermic reaction with:	Violent reaction with: strong oxidiser, Alkali metals, Alkaline earth metal, Acetic anhydride, Peroxides, Phosphorus oxides (e.g. P ₂ O ₅), Nitric acid, Nitrate, Perchlorates, => Explosive properties
10.4 Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible materials:	There is no additional information.
10.6 Hazardous decomposition products:	Hazardous combustion products: see section 5

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 sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	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

SECTION 12: Ecological Information

12.1 Ecotoxicity	Do not empty into drains. Do not flush into surface water or sanitary sewer system.
12.2 Persistence and degradability	No data available

12.3 Bio accumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	No data available
12.6 Other adverse effects	No data available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods	Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Disposal methods Waste from residues:	
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.