## 1. PRODUCT/PREPARATION/COMPANY

Trade name: **BIOPAP KIT**

Product Number: 90.013

Company: Biotools, B & M Labs, S.A.
Valle de Tobalina – 52 – Nave 39
28021 Madrid
SPAIN
Tel: + 34 91 710 00 74
Fax: + 34 91 505 31 18

Emergency number: please contact Biotools distributor in your country. Spain only: 91 562 04 20

## 2. HAZARDS IDENTIFICATION

**Primary routes of entry**
Skin or eye contact from splashes
Inhalation of the vapor at room temperature is unlikely

**Ingestion**
Harmful if swallowed. May cause irritation to the gastrointestinal tract.

**Skin contact**
May cause irritation

**Eye contact**
Irritating

**Evidence for reprodutive toxicity, carcinogenicity and mutagenicity**
No data available.

| ***Hazard Ingredients*** | |
|---|---|
| ***Tris hydroxymethyl aminomethane (Tris)*** | Irritating to eyes and skin. |
| ***Hydrochloric acid*** | Causes burns. Irritating to respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible). |
| ***Ethylenediaminetetra acetic acid*** | Irritating to eyes. Harmful to aquatic organisms, may cause long- term adverse effects in the aquatic environment. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid release to the environment. Refer to special instructions/ Safety data sheets. |
| ***Potassium chloride*** | Irritating to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eyes/face protection. |
| ***Triton X-100*** | Harmful if swallowed. Risk of serious damage to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eyes/face protection. Wear suitable protective clothing. |

## 3. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS

Chemical characterisation: Solutions in buffer/ gel. Volume of each product package varies: 28µl- 1,8 ml.

The kits contain the following components:

Active ingredients:

| CAS-No | EC no | Name | Contents | Danger[1] | Risks |
|---|---|---|---|---|---|
| 7732-18-5 | 231-791-2 | **Water** | <80% | None | None |
| 77-86-1 | 201-064-4 | **Tris hydroxymethyl aminomethane (Tris)** | <1,5% | Xi | H319/315 |
| 7647-01-0 | 231-595-7 | **Hydrochloric acid** | <0,1% | C<br>Xi | H314/335<br>P305/313/337/338/351/280/281/309+315 |
| 60-00-4 | 200-449-4 | **Ethylenediaminetetraacetic acid (EDTA)** | <0,5% | Xi | H319/413<br>P305/313/337/338/351 |
| 56-81-5 | 200-289-5 | **Glycerol** | >80% | None | None |
| 7447-40-7 | 231-211-8 | **Potassium chloride** | <0,5% | Xi | H319<br>P305/313/337/338/351/281 |
| 9002-93-1 | NA | **Triton X-100** | 0,1% | Xn | H302/318<br>P305/313/337/338/351/281 |
| NA | NA | **Oligonucleotides** | <0,005% | None | None |
| 7786-30-3 | 232-094-6 | **Magnesium chloride** | < 0,5% | None | None |
| 74299-50-6 | 277-809-2 | **dATP** | 0,0625-0,25 % | None | None |
| 3770-58-9 | 223-208-5 | **dCTP** | 0,0625-0,25 % | None | None |
| 93919-41-6 | 300-026-5 | **dGTP** | 0,0625-0,25 % | None | None |
| 18423-43-3 | NA | **dTTP** | 0,0625-0,25 % | None | None |
| None | None | **Control DNA – non infective HPV sequences cloned in a pUC-derived plasmid** | <0.0001 % | None | None |

## 4. FIRST AID MEASURES

**Skin contact**
Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Get medical attention.

**Eye contact**
Rinse opened eyes for at least 15 min with copious amounts of water. Check for and remove any contact lenses. Call a physician.

**Ingestion**
Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with plenty of water. Call a physician. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

**Inhalation**
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

[1] Dangers and risks on active ingredients are aplicable to pure ingredients. Amounts present in the specified product are under threshold levels as per Directive 67/548/EC and other European Legislation in force.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**
Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Fire and explosion hazards**
Emits irritant or toxic fumes under fire conditions.

**Protective equipment**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Wear protective gloves and goggles. Evacuate area. Shut off all sources of ignition.

**Environmental precautions**
Product must not enter ground, sewerage system or water course

**Measures for cleaning/collecting**
Collect spilled liquid with liquid-binding material or inert absorbent and place it in a container for disposal. Wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

**Handling**
Always keep the containers tightly closed. Observe good laboratory technique when handling.

**Storage**
Store each component of the kit in the original container, at -15±8ºC.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure limits**
Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

**Eye protection**
Wear goggles

**Hand protection**
Wear protective gloves

**Skin protection**
Wear labcoat

**Hygiene measures**
General industrial hygiene practice.

**Breathing equipment**
Use an approved/certified respirator or equivalent.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form**: Liquid
**Colour**: Colorless
**Odour**: Odorless
**Boiling point**: no data available.
**Flash point**: no data available
**Explosive properties**: no data available
**Vapor pressure**: no data available
**pH**: NA

## 10. STABILITY AND REACTIVITY

**Stability**
Stable under normal handling and storage conditions

**Decomposition**
Carbon monoxide, carbon dioxide, nitrogen oxides

**Conditions to avoid**
Avoid strong oxidising agents, peroxides, acids, acid chlorides, acid anydrides, alkali metals, ammonia.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.
**Skin** May be harmful if absorbed through skin. May cause skin irritation.
**Eyes** May cause eye irritation.
**Ingestion** May be harmful if swallowed.

**Acute toxicity**

**Tris hydroxymethyl aminomethane (Tris)**: oral; rat; LD50: 5900 mg/kg
**Hydrochloric acid:** inhalative, rat: 3124 ppm(V)/1 h (pure substance)
**Ethylenediaminetetraacetic acid (EDTA)**: oral, rat, LD50: 4000 mg/kg
**Triton- X-100:** oral, rat, LD50: 1800 mg/kg
**Potassium chloride:** oral, rat, LD50: 2430 mg/kg
**Glycerol**: oral; rat; LD50: 12600 mg/kg
**Magnessium chloride**: oral; rat; LD50: 8100 mg/kg

**Chronic exposure**
Products may cause allergic reactions in certain sensitive individuals

**Sensitization**
No data available

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.
The product and packaging should be disposed of in accordance with the instructions of the local authorities.

## 14. TRANSPORT INFORMATION

**RID/ADR**
Non-hazardous for road transport

**IMDG**
Non-hazardous for sea transport

**IATA**
Non-hazardous for air transport

## 15. REGULATORY INFORMATION

DANGERS AND RISKS ON ACTIVE INGREDIENTS ARE APLICABLE TO PURE INGREDIENTS. AMOUNTS PRESENT IN THE SPECIFIED PRODUCT ARE UNDER THRESHOLD LEVELS AS PER DIRECTIVE 67/548/EC AND OTHER EUROPEAN LEGISLATION IN FORCE.

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge, and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

© Biotools, B & M Labs, S.A. License granted to make unlimited paper copies for internal use only.

DISCLAIMER

For Research Use Only