

**1. PRODUCT/PREPARATION/COMPANY**

Trade name: **HIGH RETROTRANSCRIPTASE STARTER KIT** Company: Biotools, B & M Labs, S.A.  
Valle de Tobalina – 52 – Nave 43  
28021 Madrid  
SPAIN  
Tel: + 34 91 710 00 74  
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Product Number: 10.081, 10.082

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

**2. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS**

Chemical characterisation: Solutions in water. Volume of each product package varies: 1 ml - 5 ml.

Active ingredients:

CAS-No	EC no	Name	Contents	Danger <sup>1</sup>	Risks
7783-20-2	231-984-1	ammonium sulfate	0.04 %	None	None
77-86-1	201-064-4	Tris (hydroxymethyl) aminomethane (Tris)	0.01 %	None	None
7786-30-3	232-094-6	magnesium sulfate	0.01 %	Xi	R 36/37/38
56-81-5	200-289-5	glycerol	94 %	None	None
1927-31-7	217-662-3	dATP	0.00001 %	None	None
102783-51-7	None	dCTP	0.00001 %	None	None
93919-41-6	300-026-5	dGTP	0.00001 %	None	None
18423-43-3	None	dTTP	0.00001 %	None	None

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

**3. HAZARDS IDENTIFICATION****Primary routes of entry**

Skin or eye contact from splashes

**Ingestion**

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

**Skin contact**

May cause irritation

**Eye contact**

Irritating

**Evidence for reproductive toxicity, carcinogenicity and mutagenicity**

No data available

**4. FIRST AID MEASURES****Skin contact**

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing.

**Eye contact**

Rinse opened eyes for at least 15 min with copious amounts of water. Call a physician if eyes become irritating.

**Ingestion**

Rinse mouth. Drink plenty of water. Call a physician if irritating or symptoms occur.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

<sup>1</sup> Dangers and risks on active ingredients are applicable 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.



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## 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

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear protective gloves and goggles.

### 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.

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## 7. HANDLING AND STORAGE

### Handling

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

### Storage

Store in the original container, at  $-15\pm 8^{\circ}\text{C}$ .

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure limits

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

### Eye protection

Wear goggles

### Hand protection

Wear synthetic or rubber gloves

### Skin protection

Wear labcoat

### Hygiene measures

Keep away from foodstuffs and beverage

Avoid contact with eyes and skin

Do not eat, drink or smoke while working with products

### Breathing equipment

Not required

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Solutions in water

**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:** 7-9

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## 10. STABILITY AND REACTIVITY

### Stability

Stable under normal handling and storage conditions

### Decomposition

No data available

### Conditions to avoid

Avoid strong oxidising agents, fire.

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## 11. TOXICOLOGICAL INFORMATION

Irritating to eyes

Irritating to skin

Products may cause allergic reactions in certain sensitive individuals

Acute toxicity:     KCl: oral; rat; LD50: 2600 mg/kg  
                          MgCl2: oral; rat; LD50: 8100 mg/kg  
                          Tris: oral; rat; LD50: 5900 mg/kg  
                          MnCl2: oral; rat; LD50: 1484 mg/kg

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## 12. ECOLOGICAL INFORMATION

Data not yet available

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## 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.

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## 14. TRANSPORT INFORMATION

### RID/ADR

Non-hazardous for road transport

### IMDG

Non-hazardous for sea transport

### IATA

Non-hazardous for air transport

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**BIOTOOLS**  
BIOTOOLS B & M LABS. S.A.

## EU – Material Safety Data Sheet

according to the EU guidelines 91/155/EEC

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### 15. REGULATORY INFORMATION

**R36**

Irritating to eyes

**R38**

Irritating to skin

**R22**

Harmful if swallowed

**S36/37/39**

Wear suitable protective clothing, gloves and eye/face protection

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### 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.

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