

**1. PRODUCT/PREPARATION/COMPANY**

Trade name: **SPEEDTOOLS DNA Extraction Kit** Company: Biotoools, B & M Labs, S.A.  
Product Number: 21.131, 21.132 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 Biotoools distributor in your country. Spain only: 91 562 04 20

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

Chemical characterisation: -. Volume of each product package varies: 1,8 ml- 150 ml.

The kits contain the following components:

- Buffer BB1
- Reagent BB2
- Buffer BB5
- Buffer BBW
- Buffer BBE
- Proteinase K
- Proteinase Buffer
- Columns
- 2 ml Collecting tubes
- Label (Buffer BB3)
- Protocol

Active ingredients:

CAS-No	EC no	Name	Contents	Danger <sup>1</sup>	Risks
7732-18-5	231-791-2	<b>Water</b>	<80%	None	None
50-01-1	200-002-3	<b>Guanidiniumchloride solution</b>	<45%	Xn	R 22-36/38
67-63-0	603-117-00-0	<b>Isopropyl alcohol</b>	>25%	F <sup>+</sup>	R 10-22-36/38 S 7-16-25
39450-01-6	254-457-8	<b>Proteinase K</b>	>8%	Xi	R 36/37/38- 42 S 22-24-26-36/37

**3. 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

<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.



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

No data available.

<b>Hazard Ingredients</b>	
<b>Guanidiniumchloride solution</b>	Harmful if swallowed. Irritating to eyes and skin.
<b>Isopropyl alcohol</b>	Flammable. Harmful if swallowed. Irritating to eyes and skin. Keep container tightly closed. Keep away from sources of ignition- no smoking. Avoid contact with eyes.
<b>Proteinase K</b>	Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation. Do not breath dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

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**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.

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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. 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.

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## 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 temperatures 25°C maximum.

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## 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** NA

**Colour:** NA

**Odour:** NA

**Boiling point:** no data available.

**Flash point:** no data available

**Explosive properties:** no data available

**Vapor pressure:** no data available

**pH:** NA

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## 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 anhydrides, alkali metals, ammonia.

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#### 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

**Guanidiniumchloride solution:** oral; rat; LD50: 475 mg/kg  
**Isopropyl alcohol:** inhalation; rat; LD50: 5045 mg/kg  
**Proteinase K:**No data available

#### Chronic exposure

Products may cause allergic reactions in certain sensitive individuals

#### Sensitization

No data available

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#### 12. ECOLOGICAL INFORMATION

No data 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

**15. REGULATORY INFORMATION**

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.

**SPEEDTOOLS DNA Extraction Kit**

<b>Buffer BB1</b>	<b>Indication of Danger</b>	Xn Harmful
	<b>R phrases</b>	R22 Harmful if swallowed. R36/38 Irritating to eyes and skin.
	<b>S Phrases</b>	-

<b>Buffer BBW</b>	<b>Indication of Danger</b>	Xn Harmful
	<b>R phrases</b>	R10 Flammable R22 Harmful if swallowed. R36/38 Irritating to eyes and skin.
	<b>S Phrases</b>	S7 Keep container tightly closed S16 Keep away from sources of ignition- no smoking S25 Avoid contact with eyes.

<b>Reagent BB2/ Buffers BB5 &amp; BBE</b>	<b>Indication of Danger</b>	-
	<b>R phrases</b>	-
	<b>S Phrases</b>	-

<b>Proteinase K/ Proteinase Buffer</b>	<b>Indication of Danger</b>	Xi Irritant
	<b>R phrases</b>	R42 May cause sensitization by inhalation. R36/37/38 Irritating to eyes, respiratory system and skin.
	<b>S Phrases</b>	S22 Do not breath dust S24 Avoid contact with skin. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37 Wear suitable protective clothing and gloves.

**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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