

Solution B4 (EliGene® Blood DNA Isolation Kit, 411050)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 **Product information**

> Commercial Product Name: Solution B4 (EliGene® Blood DNA Isolation Kit, 411050)

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

Use of the Substance/Mixture: Laboratory chemicals

Details of the supplier of the safety data sheet 1.3

> Company: ELISABETH PHARMACON, spol. s r.o.

> > Rokycanova 4437/5, 615 00 Brno,

Czech Republic

+420 542 213 851 Telephone: Fax: +420 542 213 827 E-mail: info@elisabeth.cz

1.4 **Emergency telephone number**

Centre for detoxification Prague: +420 224 91 92 93/ +420 224 91 54 02

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Flammable liquid: Category 2 Eye irritation: Category 2

Classification (67/548/EEC, 1999/45/EC)

Highly flammable R11: Highly flammable.

2.2 **Label elements**

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:





Signal Word: Danger

Hazard Statements: H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

Precautionary statements (P statements)

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3 Other hazards



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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Mixtures**

Hazardous components

Chemical Name	CAS- No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
ethanol	64-17-5	F; R11	Flam. Liq. 2; H225	>= 50 -< 70
	200-578-6		Eye Irrit. 2; H319	

For explanation of abbreviations see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Move out of dangerous area

Show this data sheet to the doctor in attendance.

If inhaled: If unconscious place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing all

> contaminated clothes and shoes. If symptoms persist, call a physician.

In case of eye contact: Immediately flush eye(s) with plenty of water.

> Remove contact lenses. Protect unharmed eye.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

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

No information available Symptoms:

Causes serious eye irritation. Symptoms:

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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

dioxide.



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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water

courses.

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information: In the event of fire and/or explosion do not breathe fumes.

Use a water spray to cool fully closed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas

6.2 Environmental precautions

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: Avoid formation of aerosol.

Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

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Advice on protection against

fire and explosion:

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources

of ignition

Hygiene measures: Keep away from food and drink. Wash hands before breaks

> and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and

the eyes. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers:

Keep container tightly closed in a dry and well – ventilated

place.

Advice on common storage:

Do not store together with oxidizing and self-igniting products

Other data:

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s): Laboratory chemicals

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	CAS-No.	Value	Control parameters	Basis
ethanol	64-17-5	TWA	1,000 ppm	GB EH40
			1,920 mg/m3	

8.2 Exposure controls

Personal protective equipment

Eve protection: Safety glasses

> Wear face - shield and protective suit for abnormal processing problems. Ensure that eyewash stations and safety showers are

close to the workstation location.

Hand protection Remarks: The choice of an appropriate glove does not only depend on its

> material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of

contact). Protective gloves complying with EN 374.

Skin and body protection: Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Footwear protecting against chemicals. Workers should wear antistatic footwear.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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MSDS EliGene Blood DNA Isolation Kit B4 EN

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Appearance: liquid

Colour: No data available
Odour: No data available

Odour Threshold: No data available

pH: No data available

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Vapour pressure: No data available

Relative vapour density: No data available

Relative density: No data available

Density: No data available

Solubility(ies)

Water solubility: No data available

Solubility in other solvents: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Vapors may form explosive mixture with air.

Keep away from oxidizing agents, and acidic or alkaline products

none under normal use

Hazardous decomposition products: No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid: No data available

10.6 Hazardous decomposition products

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information for the product

Product:

Acute oral toxicity: No data available No data available Acute inhalation toxicity: No data available Acute dermal toxicity:

Ingredients:

Acute oral toxicity: LD50/rat = 10,470 mg/kgAcute inhalation toxicity: LC50/rat = 20000 ppmExposure time: 10 hours

Skin corrosion/irritation

Not classified based on available information

Product: Remarks:

May irritate skin.

Serious eye damage/eye irritation Causes serious eye irritation

Product

May cause irreversibke eye damage.

Ingredients

Ethanol: eye irritation

Respiratory or skin sensitisation Skin sensitisation: No data available

Respiratory sensitisation: No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

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Reproductive toxicity
No data available

STOT - single exposure
No data available

Aspiration toxicity
No data available

Further information
Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:

Toxicity to algae:

No data available

No data available

No data available

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Bioaccumulation: No data available

Partition coefficient: n

-octanol/water: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Assessment: This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information Remarks: Harmful for water organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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

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14.1 UN number

ADR: UN 1170 RID: UN 1170 IMDG: UN 1170 IATA: UN 1170

14.2 UN proper shipping name

ADR: **Ethanol solution** RID: Ethanol solution IMDG: Ethanol solution IATA: Ethanol solution

14.3 Transport hazard class(es)

ADR: 3 3 RID: 3 IMDG: IATA: 3

14.4 Packing group

ADR

Packing group: Ш Classification Code: F1 Hazard Identification Number: 33 Labels: 3 Tunnel restriction code: (D/E)

RID

Packing group: Ш Classification Code: F1 Labels: 3

IMDG

Packing group: Ш Labels: 3 F-E, S-D EmS Code:

IATA

Packing group:

Labels: Flammable Liquids

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

For personal protection see section 8.

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

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH -Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances:

Quantity 1

Quantity 2

7h

highly flammable

5.000 t

50,000 t

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:

P5c FLAMMABLE LIQUIDS 50,000 t 5,000 t

34 Petroleum products: (a) 2,500 t 25,000 t

> gasolines and naphthas, (b) kerosenes (including jet

fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)

15.2 Chemical Safety Assessment

No data available

SECTION 16. OTHER INFORMATION

Full text of H-Statements

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

Full text of other abbreviations Eye Irrit.: Eye irritation Flam. Liq.: Flammable liquids

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