

Kit Summary

Product Code(s) AB110170
Product name Mitochondria Isolation Kit for Cultured Cells

Reagent A

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Triethanolamine	203-049-8	102-71-6	0.2	Eye Irrit. 2 (H319)	no data available
Tris	201-064-4	77-86-1	0.12	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	no data available
Digitonin	234-255-6	11024-24-1	0.010	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330)	no data available
EDTA	200-449-4	60-00-4	0.007	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	no data available

Reagent B

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Tris	201-064-4	77-86-1	0.12	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	
Digitonin	234-255-6	11024-24-1	0.010	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330)	
EDTA	200-449-4	60-00-4	0.007	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	

Reagent C

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Tris	201-064-4	77-86-1	0.12	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	no data available
EDTA	200-449-4	60-00-4	0.007	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	no data available

GHS / CLP - REGULATION (EC) No 1272/2008

Not dangerous

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing

2.3 Other information

No information available

TRANSPORT INFORMATION

ADR Not dangerous goods

IATA Not dangerous goods

DOT Not dangerous goods

Safety Data Sheet

Issuing date no data available

Revision Date 14-Jul-2015

Version 5

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Code(s) AB110170-BODY
Product name Mitochondria Isolation Kit for Cultured Cells

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

Recommended use For research use only
Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Supplier
Abcam plc
330 Cambridge Science Park
Cambridge
CB4 0FL
UK
Tel: +44 (0)1223 696000
Fax: +44 (0)1223 215215

For further information, please contact: technical@abcam.com

1.4 Emergency telephone number

Emergency telephone - Tel: +44 (0)1223 696000 (08.00-17.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS / CLP - REGULATION (EC) No 1272/2008

Ozone	Not applicable
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2.2 Label elements

Not dangerous

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing

2.3 Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Wercs Padding	Not Listed	-	>100%		no data available
Tris	201-064-4	77-86-1	0.36	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	no data available
Triethanolamine	203-049-8	102-71-6	0.2	Eye Irrit. 2 (H319)	no data available
EDTA	200-449-4	60-00-4	0.021	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	no data available
Digitonin	234-255-6	11024-24-1	0.02	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water. Drink plenty of water.
Inhalation	Move to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Special hazard

None in particular.

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

See Section 12 for additional information.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

Specific use(s) No information available.
Exposure scenario No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Triethanolamine 102-71-6				VLA-ED: 5 mg/m ³	MAK: 5 mg/m ³ Ceiling / Peak: 20 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Triethanolamine 102-71-6		TWA: 5 mg/m ³		TWA: 5 ppm	TWA: 0.5 ppm TWA: 3.1 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Triethanolamine 102-71-6	STEL 1.6 ppm STEL 10 mg/m ³ MAK: 0.8 ppm MAK: 5 mg/m ³			TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³

Derived No Effect Level No information available

Predicted No Effect Concentration No information available

8.2 Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection Tightly fitting safety goggles.
Hand protection Protective gloves.
Skin and body protection Long sleeved clothing.

Respiratory protection
Thermal hazards

No special protective equipment required.
No information available

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State @20°C
Odor

No information available
No information available

Appearance

No information available

Property

Values

Note

pH

No information available

Melting/freezing point

No information available

Boiling point/boiling range

No information available

Flash Point

No information available

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Flammability Limits in Air

upper flammability limit

lower flammability limit

Vapor pressure

No information available

Vapor density

No information available

Relative density

No information available

Water solubility

No information available

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water

No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity, kinematic

No information available

Explosive properties

No information available

9.2 Other information

VOC Content(%)

No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Precautionary Statements

None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible materials

None in particular

10.6 Hazardous decomposition products

None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation There is no data available for this product.

Eye contact There is no data available for this product.

Skin contact There is no data available for this product.

Ingestion There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tris	5900 mg/kg (Rat)		
Triethanolamine	4190 mg/kg (Rat)	2000 mg/kg (Rabbit) 16 mL/kg (Rat)	
EDTA	1700 mg/kg (Rat)		
Digitonin	> 50 mg/kg (Rat)		

Chronic toxicity

Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

Corrosivity No information available.

Sensitization No information available.

Neurological effects No information available.

Reproductive toxicity No information available.

Mutagenic effects No information available.

Target Organ Effects Eyes. Respiratory system.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects As supplied, the preparation is not expected to present significant adverse environmental effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Triethanolamine	216: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 169: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	10600-13000: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1000: 96 h <i>Pimephales promelas</i> mg/L LC50 static 450-1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static		1386: 24 h <i>Daphnia magna</i> mg/L EC50

EDTA	1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	34-62: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 44.2-76.5: 96 h <i>Pimephales promelas</i> mg/L LC50 static	113: 48 h <i>Daphnia magna</i> mg/L EC50 Static
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12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Chemical Name	log Pow
Triethanolamine	-2.53

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADR Not dangerous goods

IATA Not dangerous goods

DOT Not dangerous goods

15. REGULATORY INFORMATION

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

No information available.

15.2 Chemical Safety Assessment

No information available.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H301 + H311 - Toxic if swallowed or in contact with skin

H330 - Fatal if inhaled

H412 - Harmful to aquatic life with long lasting effects

Revision Date 14-Jul-2015

Revision Note not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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.

End of SDS