Revision Date: 1-June-2016



1.Product and Company Information

Product Name	ProteinExt TM Mammalian Mitochondria Isolation Kit For Cultured Cells
Cat. No.	DE401
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

The following TransGen products are included:

Mitochondria Isolation Buffer I (MIB I) Mitochondria Isolation Buffer II (MIB II) Mitochondria Isolation Buffer III (MIB III) Mitochondria Storage Buffer (MSB) *ProteinSafe*TM Protease Inhibitor Cocktail, EDTA-free (100×)

Revision Date: 1-June-2016



1.Product and Company Information

Product Name	Mitochondria Isolation Buffer I (MIB I)
Cat. No.	DE401-0101
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

2 COMPOSITION/INFORMATION ON INGREDIENTS Hazardous/

Non-hazardous

Components

Phosphate-buffered saline (10%)

3 HAZARDS IDENTIFICATION

Physical/chemical

Hazards	The products contain no substances which at their given concentration are considered to be hazardous to human.
Potential health effects	Not available
Eyes	Not available
Skin	Not available
Inhalation	Not available
Ingestion	Not available
Other Toxic Effects on Humans Carcinogenic effects	Not available Not available
Mutagenic effects	Not available

Reproduction toxicity	Not available
Teratogenic effects	Not available

4 FIRST AID MEASURE

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personal. If large quantities of this material are swallowed, call a physician immediately.
Skin contact	In case of contact, immediately flush the skin with plenty of water Remove contaminated clothes and shoes.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 min. get medical attention.
Aggravating condition	Prolonged exposure is not known for aggravate medical condition.

5 FIRE FIGHTING MEASURES

Flammability	May be combustible at high temperature.
Extinguishing media	
Suitable	Use dry chemical for small fire, for large fire, use water spray, fog or foam. Do not use water jet.
Hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.
Fire-fighting procedure	Fire fighter should ware positive pressure self-contained breathing. Apparatus and full turnout gear.
Protecting of fire-fighters	Be sure to use approved/certified respirator or equipment

6 ACCIDENTAL RELEASE MEASURE

Personal Precautions	Splash goggles, full suit, boots and gloves. Consult a specialist.
Spill and leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.

7 HANDLING AND STORAGE

Handling	Keep away from heat and source of ignition.
	Empty containers pose a fire risk.
Storage	Keep container tightly closed and store at
	room temperature.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures	Use process enclosure, local exhaust ventilation, or other Engineering controls to keep airborne level recommended limits.
Hygiene measures	Wash hands after handling the materials.
Personal protective Equipment Skin and body Eyes	Lab coat Safety glasses Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state Color Molecular Solubility Flash point Explosive properties liquid Not available Weight Not available Not available Not available Not available

10 STABILITY AND REACTIVITY

Stability	The product is stable
Conditions to avoid	Not available
Products of hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.

11 TOXICOLOGICAL INFORMATION

RTECS #	N/A
Local effects	
Skin irritation	Not available
Acute toxicity	LD50 and LC50: Not available
Chronic toxicity	Repeated or prolonged exposure is not known for aggravate medical condition.
Other Toxic Effects	
on humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproduction toxicity	Not available
Teratogenic effects	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Toxicity of product	

of biodegradation	The product itself and its degradation products are not
	toxic.

13 DISPOSAL CONSIDERATIONS

Methods of disposal Waste must be disposed of in accordance with federal, state, and local control regulations.

14 TRANSPORT INFORMATION IATA

Proper shipping name

Hazard class Subsidiary class Packing group Un-no Not classified as dangerous in the meaning of transport regulations. Not available Not available Not available Not available Not available

15 REGULATORY INFORMATION

EU regulation	
Risk phrases	This product is not classified according to the EU regulation.
U.S. Federal Regulations	This product is not regulated by SARA 313 This product does not contain HAPs.
HCS Classification State regulations	Not-controlled under the HCS (United States)
California Proposition 65	This product does not contain chemicals listed under proposition 65
WHMIS (Canada)	Non-controlled

16 OTHER INFORMATION

This product is sold for research use only. It is not intended for human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household or cosmetic use. A technically competent individual must supervise the use of this product. The above product information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information is to be used as a guide and shall not be taken as being all inclusive. All materials and mixtures may be present unknown hazards and should be used with caution. Since Invent Biotechnologies Inc. cannot control the actual methods or conditions of use, the company shall not held responsible for any damages or losses resulting from contact with the product described herein. The information in this msds does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.

Revision Date: 1-June-2016



1.Product and Company Information

Product Name	Mitochondria Isolation Buffer II (MIB II)
Cat. No.	DE401-0102
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

2 COMPOSITION/INFORMATION ON INGREDIENTS Hazardous/

Non-hazardous

Components

Phosphate-buffered saline (10%)

3 HAZARDS IDENTIFICATION

Physical/chemical

Hazards	The products contain no substances which at their given concentration are considered to be hazardous to human.
Potential health effects	Not available
Eyes	Not available
Skin	Not available
Inhalation	Not available
Ingestion	Not available
Other Toxic Effects on Humans Carcinogenic effects	Not available Not available
Mutagenic effects	Not available

Reproduction toxicity	Not available
Teratogenic effects	Not available

4 FIRST AID MEASURE

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personal. If large quantities of this material are swallowed, call a physician immediately.
Skin contact	In case of contact, immediately flush the skin with plenty of water Remove contaminated clothes and shoes.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 min. get medical attention.
Aggravating condition	Prolonged exposure is not known for aggravate medical condition.

5 FIRE FIGHTING MEASURES

Flammability	May be combustible at high temperature.
Extinguishing media	
Suitable	Use dry chemical for small fire, for large fire, use water spray, fog or foam. Do not use water jet.
Hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.
Fire-fighting procedure	Fire fighter should ware positive pressure self-contained breathing. Apparatus and full turnout gear.
Protecting of fire-fighters	Be sure to use approved/certified respirator or equipment

6 ACCIDENTAL RELEASE MEASURE

Personal Precautions	Splash goggles, full suit, boots and gloves. Consult a specialist.
Spill and leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.

7 HANDLING AND STORAGE

Handling	Keep away from heat and source of ignition.
	Empty containers pose a fire risk.
Storage	Keep container tightly closed and store at
	room temperature.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures	Use process enclosure, local exhaust ventilation, or other Engineering controls to keep airborne level recommended limits.
Hygiene measures	Wash hands after handling the materials.
Personal protective Equipment Skin and body Eyes	Lab coat Safety glasses Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state Color Molecular Solubility Flash point Explosive properties liquid Not available Weight Not available Not available Not available Not available

10 STABILITY AND REACTIVITY

Stability	The product is stable
Conditions to avoid	Not available
Products of hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.

11 TOXICOLOGICAL INFORMATION

RTECS #	N/A
Local effects	
Skin irritation	Not available
Acute toxicity	LD50 and LC50: Not available
Chronic toxicity	Repeated or prolonged exposure is not known for aggravate medical condition.
Other Toxic Effects	
on humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproduction toxicity	Not available
Teratogenic effects	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Toxicity of product	

of biodegradation	The product itself and its degradation products are not
	toxic.

13 DISPOSAL CONSIDERATIONS

Methods of disposal Waste must be disposed of in accordance with federal, state, and local control regulations.

14 TRANSPORT INFORMATION IATA

Proper shipping name

Hazard class Subsidiary class Packing group Un-no Not classified as dangerous in the meaning of transport regulations. Not available Not available Not available Not available Not available

15 REGULATORY INFORMATION

EU regulation	
Risk phrases	This product is not classified according to the EU regulation.
U.S. Federal Regulations	This product is not regulated by SARA 313 This product does not contain HAPs.
HCS Classification State regulations	Not-controlled under the HCS (United States)
California Proposition 65	This product does not contain chemicals listed under proposition 65
WHMIS (Canada)	Non-controlled

16 OTHER INFORMATION

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Revision Date: 1-June-2016



1.Product and Company Information

Product Name	Mitochondria Isolation Buffer III (MIB III)
Cat. No.	DE401-0103
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

2 COMPOSITION/INFORMATION ON INGREDIENTS Hazardous/

Non-hazardous

Components

Phosphate-buffered saline (10%)

3 HAZARDS IDENTIFICATION

Physical/chemical

Hazards	The products contain no substances which at their given concentration are considered to be hazardous to human.
Potential health effects	Not available
Eyes	Not available
Skin	Not available
Inhalation	Not available
Ingestion	Not available
Other Toxic Effects on Humans Carcinogenic effects	Not available Not available
Mutagenic effects	Not available

Reproduction toxicity	Not available
Teratogenic effects	Not available

4 FIRST AID MEASURE

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personal. If large quantities of this material are swallowed, call a physician immediately.
Skin contact	In case of contact, immediately flush the skin with plenty of water Remove contaminated clothes and shoes.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 min. get medical attention.
Aggravating condition	Prolonged exposure is not known for aggravate medical condition.

5 FIRE FIGHTING MEASURES

Flammability	May be combustible at high temperature.
Extinguishing media	
Suitable	Use dry chemical for small fire, for large fire, use water spray, fog or foam. Do not use water jet.
Hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.
Fire-fighting procedure	Fire fighter should ware positive pressure self-contained breathing. Apparatus and full turnout gear.
Protecting of fire-fighters	Be sure to use approved/certified respirator or equipment

6 ACCIDENTAL RELEASE MEASURE

Personal Precautions	Splash goggles, full suit, boots and gloves. Consult a specialist.
Spill and leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.

7 HANDLING AND STORAGE

Handling	Keep away from heat and source of ignition.
	Empty containers pose a fire risk.
Storage	Keep container tightly closed and store at
	room temperature.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures	Use process enclosure, local exhaust ventilation, or other Engineering controls to keep airborne level recommended limits.
Hygiene measures	Wash hands after handling the materials.
Personal protective Equipment Skin and body Eyes	Lab coat Safety glasses Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state Color Molecular Solubility Flash point Explosive properties liquid Not available Weight Not available Not available Not available Not available

10 STABILITY AND REACTIVITY

Stability	The product is stable
Conditions to avoid	Not available
Products of hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.

11 TOXICOLOGICAL INFORMATION

RTECS #	N/A
Local effects	
Skin irritation	Not available
Acute toxicity	LD50 and LC50: Not available
Chronic toxicity	Repeated or prolonged exposure is not known for aggravate medical condition.
Other Toxic Effects	
on humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproduction toxicity	Not available
Teratogenic effects	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Toxicity of product	

of biodegradation	The product itself and its degradation products are not
	toxic.

13 DISPOSAL CONSIDERATIONS

Methods of disposal Waste must be disposed of in accordance with federal, state, and local control regulations.

14 TRANSPORT INFORMATION IATA

Proper shipping name

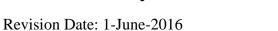
Hazard class Subsidiary class Packing group Un-no Not classified as dangerous in the meaning of transport regulations. Not available Not available Not available Not available Not available

15 REGULATORY INFORMATION

EU regulation	
Risk phrases	This product is not classified according to the EU regulation.
U.S. Federal Regulations	This product is not regulated by SARA 313 This product does not contain HAPs.
HCS Classification State regulations	Not-controlled under the HCS (United States)
California Proposition 65	This product does not contain chemicals listed under proposition 65
WHMIS (Canada)	Non-controlled

16 OTHER INFORMATION

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1.Product and Company Information

Product Name	Mitochondria Storage Buffer (MSB)
Cat. No.	DE401-0104
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

2 COMPOSITION/INFORMATION ON INGREDIENTS Hazardous/

i iuzui uous

Non-hazardous

Components

Phosphate-buffered saline (10%)

3 HAZARDS IDENTIFICATION

Physical/chemical

Hazards	The products contain no substances which at their given concentration are considered to be hazardous to human.
Potential health effects	Not available
Eyes	Not available
Skin	Not available
Inhalation	Not available
Ingestion	Not available
Other Toxic Effects on Humans Carcinogenic effects	Not available Not available
Mutagenic effects	Not available

Reproduction toxicity	Not available
Teratogenic effects	Not available

4 FIRST AID MEASURE

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personal. If large quantities of this material are swallowed, call a physician immediately.
Skin contact	In case of contact, immediately flush the skin with plenty of water Remove contaminated clothes and shoes.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 min. get medical attention.
Aggravating condition	Prolonged exposure is not known for aggravate medical condition.

5 FIRE FIGHTING MEASURES

Flammability	May be combustible at high temperature.
Extinguishing media	
Suitable	Use dry chemical for small fire, for large fire, use water spray, fog or foam. Do not use water jet.
Hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.
Fire-fighting procedure	Fire fighter should ware positive pressure self-contained breathing. Apparatus and full turnout gear.
Protecting of fire-fighters	Be sure to use approved/certified respirator or equipment

6 ACCIDENTAL RELEASE MEASURE

Personal Precautions	Splash goggles, full suit, boots and gloves. Consult a specialist.
Spill and leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.

7 HANDLING AND STORAGE

Handling	Keep away from heat and source of ignition.
	Empty containers pose a fire risk.
Storage	Keep container tightly closed and store at
	room temperature.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures	Use process enclosure, local exhaust ventilation, or other Engineering controls to keep airborne level recommended limits.
Hygiene measures	Wash hands after handling the materials.
Personal protective Equipment Skin and body Eyes	Lab coat Safety glasses Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state Color Molecular Solubility Flash point Explosive properties liquid Not available Weight Not available Not available Not available Not available

10 STABILITY AND REACTIVITY

Stability	The product is stable
Conditions to avoid	Not available
Products of hazardous	
Decomposition	These products are carbon oxides (CO, CO2), nitrogen oxides etc.

11 TOXICOLOGICAL INFORMATION

RTECS #	N/A
Local effects	
Skin irritation	Not available
Acute toxicity	LD50 and LC50: Not available
Chronic toxicity	Repeated or prolonged exposure is not known for aggravate medical condition.
Other Toxic Effects	
on humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproduction toxicity	Not available
Teratogenic effects	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Toxicity of product	

of biodegradation	The product itself and its degradation products are not
	toxic.

13 DISPOSAL CONSIDERATIONS

Methods of disposal Waste must be disposed of in accordance with federal, state, and local control regulations.

14 TRANSPORT INFORMATION IATA

Proper shipping name

Hazard class Subsidiary class Packing group Un-no Not classified as dangerous in the meaning of transport regulations. Not available Not available Not available Not available Not available

15 REGULATORY INFORMATION

EU regulation	
Risk phrases	This product is not classified according to the EU regulation.
U.S. Federal Regulations	This product is not regulated by SARA 313 This product does not contain HAPs.
HCS Classification State regulations	Not-controlled under the HCS (United States)
California Proposition 65	This product does not contain chemicals listed under proposition 65
WHMIS (Canada)	Non-controlled

16 OTHER INFORMATION

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Revision Date: 1-June-2016



1. Product and Company Information

Product Name	<i>ProteinSafe</i> TM Protease Inhibitor Cocktail, EDTA-free (100×)
Cat. No.	DI101-02
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815011
E-mail Address	trans@transgen.com.cn

2. Hazards Identification

GHS - Classification

Signal Word:



Η	ealth hazard	
	Respiratory sensitisation	Category 1

Hazard statements: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements:

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician

P284 - Wear respiratory protection

Potential health effects

- **Eyes** May cause eye irritation with susceptible persons.
- **Skin** May cause skin irritation in susceptible persons.
- **Inhalation** May be harmful by inhalation.
- **Ingestion** May be harmful if swallowed.

3. Composition

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First Aid Measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Move to fresh air.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical	У
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.	ł

6. Accidental Release Measures

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling	Always wear recommended Personal Protective Equipment. No special handling advice required.
Storage	Keep in a dry, cool and well-ventilated place. Keep

8. Exposure Controls/Personal Protection

Exposure limits: We are not aware of any national exposure limit.

9. Physical and Chemical Properties

General Information

Form: liquid

Water solubility: soluble

Others: No information available.

10.Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	No information available
Polymerization	None under normal processing.

11.Toxicological Information

Acute toxicity	Not hazardous	

Principle	Routes	of	Exposure/		
Potential Health effects					
Eyes				May cause eye irritation with susceptible persons.	
Skin				May cause skin irritation in susceptible persons.	
Inhalation				May be harmful by inhalation.	
Ingestion				May be harmful if swallowed.	
Carcinoger	nic effects			None.	
Mutagenic	effects			None.	
Reproduct	ive toxicit	У		None.	

12.Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

13.Disposal Considerations

Dispose of in accordance with local regulations.

14. Transport Information

IATA	
Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	none
Subsidiary Class	none
Packing group	none
UN-No	none

15. Regulatory Information

International Inventories

Complies

16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE