

Material Safety Data Sheet

Revision Date: 1-June-2016



1.Product and Company Information

Product Name *ProteinExtTM* Mammalian Nuclear and Cytoplasmic Protein
Extraction Kit

Cat. No. DE201

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:

Cytoplasmic Protein Extraction Buffer I (CPEB I)

Cytoplasmic Protein Extraction Buffer II (CPEB II)

Nuclear Protein Extraction Buffer (NPEB)

ProteinSafeTM Protease Inhibitor Cocktail, EDTA-free (100×)

Material Safety Data Sheet

Revision Date: 1-June-2016



1. Product and Company Information

Product Name	Cytoplasmic Protein Extraction Buffer I (CPEB I)
Cat. No.	DE201-0101
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	Not available
Carcinogenic effects	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 wear 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	Lab coat Safety glasses
Eyes	Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	Not available
Molecular Weight	Not available
Solubility	Not available
Flash point	Not available
Explosive properties	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, CO ₂), 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 Not classified as dangerous in the meaning of transport regulations.
Hazard class Not available
Subsidiary class Not available
Packing group Not available
Un-no 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 Not-controlled under the HCS (United States)
State regulations
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.

End of Safety Data Sheet

Material Safety Data Sheet

Revision Date: 1-June-2016



1. Product and Company Information

Product Name	Cytoplasmic Protein Extraction Buffer II (CPEB II)
Cat. No.	DE201-0102
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	Not available
Carcinogenic effects	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 wear 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	Lab coat Safety glasses
Eyes	Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	Not available
Molecular Weight	Not available
Solubility	Not available
Flash point	Not available
Explosive properties	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, CO ₂), 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 Not classified as dangerous in the meaning of transport regulations.
Hazard class Not available
Subsidiary class Not available
Packing group Not available
Un-no 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 Not-controlled under the HCS (United States)
State regulations
California Proposition 65 This product does not contain chemicals listed under proposition 65
WHMIS (Canada) Non-controlled

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End of Safety Data Sheet

Material Safety Data Sheet

Revision Date: 1-June-2016



1. Product and Company Information

Product Name	Nuclear Protein Extraction Buffer (NPEB)
Cat. No.	DE201-0103
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	Not available
Carcinogenic effects	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 wear positive pressure self-contained breathing. Apparatus and full turnout gear.

Protecting of fire-fighters Be sure to use approved/certified respirator or equipment

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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	Lab coat Safety glasses
Eyes	Safety glasses

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	Not available
Molecular Weight	Not available
Solubility	Not available
Flash point	Not available
Explosive properties	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, CO ₂), 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 Not classified as dangerous in the meaning of transport regulations.
Hazard class Not available
Subsidiary class Not available
Packing group Not available
Un-no Not available

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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
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End of Safety Data Sheet

Material Safety Data Sheet

Revision Date: 1-June-2016



1. Product and Company Information

Product Name *ProteinSafe*[™] 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: Danger



Health hazard

Respiratory sensitisation	Category 1
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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
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

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

in properly labeled containers

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.

Carcinogenic effects None.

Mutagenic effects None.

Reproductive toxicity 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
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16. Other Information

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

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End of Safety Data Sheet