

# Material Safety Data Sheet

Revision Date: 1-June-2016



## Product and Company Information

Product Name	<i>EasyPure</i> <sup>®</sup> Viral DNA/ RNA Kit
Cat. No.	ER201
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815087
E-mail Address	trans@transgen.com.cn

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### The following TransGen products are included:

Binding Buffer 5 (BB5)

Wash Buffer 5 (WB5)

Proteinase K (20 mg/ml)

RNase-free Water

RNase-free Tube (1.5 ml)

RNA Spin Columns with Collection Tubes

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# Material Safety Data Sheet

Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name                      Binding Buffer 5 (BB5)  
Cat. No.                              GR101-04  
Company                                TransGen Biotech Co., Ltd.  
Technical Phone                      +86-400-898-0321  
Fax                                        +86-10-57815087  
E-mail Address                        trans@transgen.com.cn

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## 2. Hazards Identification

GHS - Classification

Signal Word:                          Warning



Health hazard

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Hazard statements: H302 – Harmful if swallowed.  
H315 - Causes skin irritation.  
H319- Causes serious eye irritation.

Precautionary statements:

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Potential health effects

**Eyes**                                  May cause eye irritation with susceptible persons.  
**Skin**                                    May be harmful in contact with skin.

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**Inhalation** Harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

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### 3. Composition

Chemical Name	CAS-No	Weight %
guanidinium hydrochloride	50-01-1	30-60

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. 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.

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### 5. Fire-Fighting Measures

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical

**Special protective equipment for firefighters** Wear self-contained breathing apparatus and protective suit.

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### 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.

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## 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

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## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (STEL)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Guanidinium hydrochloride	none	none	none	none

## 9. Physical and Chemical Properties

General Information

Form: liquid

Color: transparent

Water solubility: soluble

Others: No information available.

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## 10. Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.
Polymerization	None under normal processing.

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## 11. Toxicological Information

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Guanidinium hydrochloride	no data available	> 2000 mg/kg (Rabbit)	no data available

Principle Routes of Exposure/  
Potential Health effects

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Eyes	May cause eye irritation with susceptible persons.
Skin	May be harmful in contact with skin.
Inhalation	Harmful by inhalation.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.

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## 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.

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## 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

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## 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**

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# Material Safety Data Sheet



Revision Date: 1-June-2016

## 1. Product and Company Information

Product Name	Wash Buffer 5 (WB5)
Cat. No.	GR101-05
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815087
E-mail Address	trans@transgen.com.cn

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## 2. Hazards Identification

Not hazardous

### Potential Health effects

<b>Eyes</b>	May cause eye irritation with susceptible persons.
<b>Skin</b>	May cause skin irritation in susceptible persons.
<b>Inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	May be harmful if swallowed.

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## 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.

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Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.
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Notes to physician	Treat symptomatically.
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## 5. Fire-Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical
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Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
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## 6. Accidental Release Measures

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

Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.
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Conditions for safe storage	Keep in a dry, cool and well-ventilated place.
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## 8. Exposure Controls/Personal Protection

Exposure limits:	We are not aware of any national exposure limit.
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## 9. Physical and Chemical Properties

General Information

Form:	Liquid
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Water solubility:	Soluble
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Others:	No information available.
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## 10. Stability and Reactivity

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Stability	Stable under normal conditions
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition	no data available

## 11. Toxicological Information

Acute toxicity - No information available.

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	No information available.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitization	No information available.

## 12. Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.

## 13. Disposal Considerations

Dispose of in accordance with local regulations.

## 14. Transport Information

IATA	Not dangerous goods
Proper shipping name	Not classified as dangerous in the meaning of transport regulations

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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

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**End of Safety Data Sheet**

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# Material Safety Data Sheet



Revision Date: 1-June-2016

## 1. Product and Company Information

Product Name                      Proteinase K (20 mg/ml)  
Cat. No.                             GE201-01  
Company                            TransGen Biotech Co., Ltd.  
Technical Phone                    +86-400-898-0321  
Fax                                 +86-10-57815087  
E-mail Address                     trans@transgen.com.cn

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## 2. Hazards Identification

GHS - Classification

Signal Word:                      Danger



Health hazard

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitisation	Category 1

Hazard statements: H315 - Causes skin irritation.  
H319- Causes serious eye irritation.  
H334- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

### Potential acute health effects

**Eyes**                      Irritating to eyes.

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<b>Skin</b>	Irritating to skin.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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### 3. Composition

Chemical Name	CAS-No	Weight %
Proteinase, tritirachium album serine	39450-01-6	1-2.5

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.

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### 5. Fire-Fighting Measures

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

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### 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.

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## 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

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## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (STEL)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Proteinase, tritirachium album serine	none	none	none	none

## 9. Physical and Chemical Properties

General Information

Form: liquid

Color: transparent

Water solubility: soluble

Others: No information available.

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## 10. Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	Strong oxidising agents.
Polymerization	None under normal processing.

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## 11. Toxicological Information

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Proteinase, tritirachium album serine	no data available	no data available	no data available

Principle Routes of Exposure/  
Potential Health effects

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Eyes	Irritating to eyes.
Skin	Irritating to skin.
Inhalation	Irritating to respiratory system.
Ingestion	May be harmful if swallowed Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.

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## 12. Ecological Information

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

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## 13. Disposal Considerations

Dispose of in accordance with local regulations.

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## 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

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## 15. Regulatory Information

International Inventories	Complies
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## 16. Other Information

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**End of Safety Data Sheet**

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# Material Safety Data Sheet



Revision Date: 1-June-2016

## 1. Product and Company Information

Product Name                      RNase-free Water  
Cat. No.                              GI201-01  
Company                              TransGen Biotech Co., Ltd.  
Technical Phone                    +86-400-898-0321  
Fax                                      +86-10-57815087  
E-mail Address                      trans@transgen.com.cn

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## 2. Hazards Identification

The product contains no substances which at their given concentration, are considered to be hazardous to health

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## 3. Composition

This kit consist of Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
Water	7732-18-5	100

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. Not an expected route of exposure.

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Notes to physician    Treat symptomatically.

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## 5. Fire-Fighting Measures

Suitable extinguishing media    Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical

Special protective equipment for firefighters    Wear self-contained breathing apparatus and protective suit.

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## 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.

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## 7. Handling and Storage

Precautions for safe handling    Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage    Keep in a dry, cool and well-ventilated place.

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## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Water	none	none	none	none

## 9. Physical and Chemical Properties

General Information

Form: Liquid

Water solubility: soluble

Others: No information available.

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## 10. Stability and Reactivity

Stability    Stable under normal conditions

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Materials to avoid	No information available
Hazardous decomposition	No information available
Products polymerization	Hazardous polymerisation does not occur

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## 11. Toxicological Information

### Acute toxicity - Component Information

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Water	none	none	none

### Principle Routes of Exposure/ Potential

#### Health effects

#### Eyes

May cause eye irritation with susceptible persons.

#### Skin

May cause skin irritation with susceptible persons.

#### Inhalation

May be harmful by inhalation.

#### Ingestion

May be harmful if swallowed.

#### Carcinogenic effects

No information available.

#### Mutagenic effects

No information available.

#### Reproductive toxicity

No information available.

#### Sensitization

No information available.

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## 12. Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.

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## 13. Disposal Considerations

Dispose of in accordance with local regulations.

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## 14. Transport Information

### IATA

Proper shipping name Not classified as dangerous in the meaning of transport

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	regulations
Hazard class	none
Subsidiary Class	none
Packing group	none
UN-No	none

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## 15. Regulatory Information

International Inventories	Complies
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## 16. Other Information

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**End of Safety Data Sheet**

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# Material Safety Data Sheet

Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name	RNase-free Tube (1.5 ml)
Cat. No.	ER101-01-02
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815087
E-mail Address	trans@transgen.com.cn

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## 2. Hazards Identification

Not hazardous

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## 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.

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## 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. Not an expected route of exposure.
Notes to physician	Treat symptomatically.

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## 5. Fire-Fighting Measures

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

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## 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.

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## 7. Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage	Keep in a dry, cool and well-ventilated place.

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## 8. Exposure Controls/Personal Protection

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

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## 9. Physical and Chemical Properties

General Information

Form:	Solid
Water solubility:	N/A
Others:	No information available.

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## 10. Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	Strong oxidizing agents
Hazardous decomposition	no data available

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## 11. Toxicological Information

Acute toxicity - No information available.

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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	No information available.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitization	No information available.

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## 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.

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## 14. Transport Information

IATA	Not dangerous goods
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

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## 15. Regulatory Information

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## **16. Other Information**

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**End of Safety Data Sheet**

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# Material Safety Data Sheet

Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name	RNA Spin Columns with Collection Tubes
Cat. No.	GR101-07
Company	TransGen Biotech Co., Ltd.
Technical Phone	+86-400-898-0321
Fax	+86-10-57815087
E-mail Address	trans@transgen.com.cn

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## 2. Hazards Identification

Not hazardous

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## 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.

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## 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. Not an expected route of exposure.
Notes to physician	Treat symptomatically.

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## 5. Fire-Fighting Measures

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

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## 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.

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## 7. Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage	Keep in a dry, cool and well-ventilated place.

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## 8. Exposure Controls/Personal Protection

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

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## 9. Physical and Chemical Properties

General Information

Form:	Solid
Water solubility:	N/A
Others:	No information available.

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## 10. Stability and Reactivity

Stability	Stable under normal conditions
Materials to avoid	Strong oxidizing agents
Hazardous decomposition	no data available

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## 11. Toxicological Information

Acute toxicity - No information available.

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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	No information available.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitization	No information available.

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## 12. Ecological Information

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

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## 13. Disposal Considerations

Dispose of in accordance with local regulations.

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## 14. Transport Information

IATA	Not dangerous goods
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

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## 15. Regulatory Information

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## 16. Other Information

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**End of Safety Data Sheet**