Revision Date: 1-June-2016



# **Product and Company Information**

Product Name Fast Mutagenesis System

Cat. No. FM111

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:

2×TransStart® FastPfu Fly PCR SuperMix

Nuclease-free Water

DMT Enzyme

SControl Plasmid (5 ng/µl)

SControl Primers (10 µM)

**DMT Chemically Competent Cell** 

Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name 2×TransStart® FastPfu Fly PCR SuperMix

Cat. No. AS231

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

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

# 3. Composition

This kit consist of Hazardous/Non-hazardous Components

Chemical Name	CAS-No	Weight %
Glycerol	56-81-5	>50

### Other components:

Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.

symptoms persist, call a physician. Not an expected route of

exposure.

Notes to physician Treat symptomatically.

### 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.

### 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

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 properly labeled containers.

# 8. Exposure Controls/Personal Protection

**Exposure limits:** 

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction	none	10 mg/m <sup>3</sup>	none

# 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 Hazardous decomposition No information available

Products polymerization Hazardous polymerisation does not occur

## 11. Toxicological Information

Acute toxicity - Component Information

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Glycerol	12600 mg/kg (Rat)	10 g/kg (Rabbit)	570 mg/m <sup>3</sup> (Rat)

Principle Routes of Exposure/ Potential

Health effects

Eyes No information available.

Skin No information available.

Inhalation No information available.

Ingestion No information available.

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 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.

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Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name Nuclease-free Water

Cat. No. GI101-01

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

Not hazardous

## 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. Not an expected route of

exposure.

Notes to physician Treat symptomatically.

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.

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

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.

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 Hazardous decomposition No information available

Products polymerization Hazardous polymerisation does not occur

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 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.

# 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** 

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

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**End of Safety Data Sheet** 

TransGen Biotech Co., Ltd.

Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name DMT Enzyme

Cat. No. GD111-01

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

Not hazardous

#### **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

Chemical Name	CAS-No	Weight %
Glycerol	56-81-5	>50

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.

symptoms persist, call a physician. Not an expected route of

exposure.

Notes to physician Treat symptomatically.

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.

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:** 

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	$10 \text{ mg/m}^3$	none	$10 \text{ mg/m}^3$	none

### 9. Physical and Chemical Properties

General Information

Form: liquid

Color: transparent

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

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Glycerol	= 12600 mg/kg Oral	no data available	no data 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 none

Mutagenic effects none

Reproductive toxicity none

Sensitization none

# 12. Ecological Information

Ecotoxicity effects	No information available.
Mobility	See log Pow
Biodegradation	No information available.
Bioaccumulation	No information available.

Chemical Name	Freshwater	Water Flea Data	Freshwater Fish	Microtox	log Pow
	Algae Data		Species Data	Data	
Glycerol		Daphnia species			logPow-1.76
56-81-5		EC50=500			
		mg/L (24 h)			

### 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

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

## 15. Regulatory Information

Chemical Name	TSCA
Glycerol	-

### 16. Other Information

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

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Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name SControl Plasmid (5 ng/µl)

Cat. No. FM111-0101

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

Not hazardous

#### **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.

symptoms persist, call a physician. Not an expected route of

exposure.

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

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

chemical

Special protective equipment We

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

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.

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 Strong oxidizing agents, Hydrogen fluoride

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
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.

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Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name SControl Primers (10 µM)

Cat. No. FM111-0102

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

Not hazardous

#### **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.

symptoms persist, call a physician. Not an expected route of

exposure.

Notes to physician Treat symptomatically.

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.

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

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.

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 Strong oxidizing agents, Hydrogen fluoride

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	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	
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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Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name DMT Chemically Competent Cell

Cat. No. CD511

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

Not hazardous

#### **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

Chemical Name	CAS-No	Weight %
Glycerol	56-81-5	5-10

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.

symptoms persist, call a physician. Not an expected route of

exposure.

Notes to physician Treat symptomatically.

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.

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:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Glycerol	$10 \text{ mg/m}^3$	none	$10 \text{ mg/m}^3$	none

# 9. Physical and Chemical Properties

**General Information** 

Form: liquid

Color: transparent

Water solubility: soluble

TransGen Biotech Co., Ltd.

Others: No information available.

# 10. Stability and Reactivity

Stability Stable under normal conditions No information available

Materials to avoid

Polymerization None under normal processing.

# 11. Toxicological Information

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Glycerol	= 12600 mg/kg Oral	no data available	no data 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 if inhalation.

Ingestion May be harmful if swallowed.

Carcinogenic effects none

Mutagenic effects none

Reproductive toxicity none

Sensitization none

# 12. Ecological Information

Ecotoxicity effects	No information available.	
Mobility	See log Pow	
Biodegradation	No information available.	
Bioaccumulation	No information available.	

Chemical Name	Freshwater	Water Flea Data	Freshwater Fish	Microtox	log Pow
	Algae Data		Species Data	Data	
Glycerol		Daphnia species			logPow-1.76
56-81-5		EC50=500			_
		mg/L (24 h)			

### 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

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

## 14. Regulatory Information

Chemical Name	TSCA
Glycerol	-

#### 16. Other Information

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