Revision Date: 1-June-2016



Product and Company Information

Product Name TransScript® One-Step gDNA Removal and cDNA Synthesis SuperMix

Cat. No. AT311

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:

TransScript® RT/RI Enzyme Mix

gDNA Remover

2×TS Reaction Mix

Random Primer (N9)

Anchored Oligo(dT)₁₈ Primer

RNase-free Water

Revision Date: 1-June-2016



1. Product and Company Information

Product Name TransScript® RT/RI Enzyme Mix

Cat. No. GO301-01

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

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.

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 (CO₂). 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 ³ total dust 5 mg/m ³ respirable fraction	none	10 mg/m ³	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 ³ (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.

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

End of Safety Data Sheet

Revision Date: 1-June-2016



1. Product and Company Information

Product Name gDNA Remover

Cat. No. AT311-0201

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.

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 (CO₂). 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	10 mg/m ³	none	10 mg/m ³	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)	No data available	No data available

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
Mobility
No information available.
Biodegradation
Bioaccumulation
No information available.
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

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End of Safety Data Sheet

Revision Date: 1-June-2016



1. Product and Company Information

Product Name 2×TS Reaction Mix

Cat. No. GO302-01

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 (CO₂). Foam. Dry

chemical

Special protective equipment Wear self-contained breathing apparatus

for firefighters 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 Random Primer (N9) (0.1 µg/µl)

Cat. No. GM111

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 (CO₂). Foam. Dry

chemical

Special protective equipment Wear self-contained breathing apparatus

for firefighters 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 No information available.

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

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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 Anchored Oligo(dT)₁₈ Primer (0.5 µg/µl)

Cat. No. GM101-01

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 (CO₂). Foam. Dry

chemical

Special protective equipment Wear self-contained breathing

for firefighters 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

apparatus

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 No information available.

No information available.

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

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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: RNase-free Water

Cat. No. GI201-01

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

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 %
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.

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry

chemical

Special protective equipment W

for firefighters

Wear self-contained breathing apparatus

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:

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.

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)
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.

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