

Version: 202501

Material Safety Data Sheet

FavorPrep[™] Bacterial RNA Extraction HE Mini Kit

Cat. No.: Contents	FABR1030 (4 preps)	FABR1033 (50 preps)	FABR1034 (100 preps)
LR Solution	0.5 ml	6 ml	12 ml
FABR Buffer	1.5 ml × 2	25 ml	50 ml
Wash Buffer 1	1.5 ml × 2	30 ml	60 ml
RNase-Free Water	0.5 ml	6 ml	8 ml
Lysozyme (Lyophilized)	5 mg	54 mg	54 mg × 2

Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, TAIWAN Phone Number: +886-8-762-1829 technical@favorgen.com www.favorgen.com

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Section 1. IDENTIFICATION

1.1 Product Identifier

1.2 Relevant identified uses of the substance or mixture and uses advised against Product form: Laboratory chemical mixture/Lysis Buffer

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against: _____

1.3 Details of the supplier of the safety data sheet

Commercial Product Name: LR Solution

Company: Favorgen Biotech Corp. Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, TAIWAN Phone Number: +886-8-762-1829

1.4 Emergency telephone number

+886-8-762-1829

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories			
Skin corrosion/irritation		Category 2	
	Serious eye damage/eye irritation	Category 2A	

GHS hazard pictograms:

	GHS07
Signal word: WARNING	▼
Hazard statement(s)	
H319	Causes serious eye irritation
Precautionary statement(s)	
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
P337 + P313	If eye irritation persists: Get medical advice/attention

2.2 Label elements

According to section 1.5.2 of Annex I to CLP



WARNING

2.3 Other hazards

Not applicable

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Always wear recommended Personal Protective Equipment.

3.1 Substances or 3.2 Mixtures Chemical: Triton X-100 Concentration: 0.1-3%

CAS No.: 9002-93-1

Section 4. FIRST AID MEASURES

According to Regulation (EC) No 1907/2006



4.1 Description of first-aid measures

If inhaled

- After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.
- In case of skin contact
- After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of eye contact
- After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. If swallowed
- After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. If in eyes
 - Rinse cautiously with water for several minutes
- **4.2 Most important symptoms and effects, both acute and delayed** H319 - Causes serious eye irritation
- 4.3 Indication of any immediate medical attention and special treatment needed

Wear Personal Protective Equipment. If skin irritation occurs: Get medical advice

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

All extinguishers can be used.

- 5.2 Special hazards arising from the substance or mixture None.
- 5.3 Advice for firefighters

Wear self-contained breathing equipment and protective suit.

5.4 Additional Information

Section 6. ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

6.2 Environmental precautions

Do not allow mixture to enter ground water system.

6.3 Methods and material for containment and cleaning up Soak up with inert absorbent material.

6.4 Reference to other sections

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling Always wear recommended Personal Protective Equipment.

- **7.2** Conditions for safe storage, including any incompatibilities Keep in a dry, cool, and well-ventilated place.
- 7.3 Specific end use(s)

For research use only.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: None

According to Regulation (EC) No 1907/2006



8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

Personal protective equipment

Eye/face protection: Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Recommended to avoid contamination with these hazards.

Hand protection: Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance: liquid/Color: Colorless to light yellow

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal condition.

10.3 Possibility of hazardous reactions None.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Not dangerous reaction known under normal use.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not Classified

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)	
Triton X-100 CAS No.: 9002-93-1	1,800 mg/kg	No data available	No data available	
Skin corrosion/irritation		Not Classifi	Not Classified	
Serious eye damage/irritation		Not Classified		
Respiratory or skin sensitization		Not Classified		
Germ cell mutagenicity		Not Classified		
Carcinogenicity		Not Classifi	Not Classified	
Reproductive toxicity		Not Classified		
Specific target organ toxicity (STOT) – single exposure		Not Classified		
Specific target organ toxicity (STOT) – repeated exposure		Not Classifi	Not Classified	
Aspiration hazard		Not Classifi	ed	

11.2 Information on other hazards

No data available

According to Regulation (EC) No 1907/2006



Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

- **12.2 Persistence and degradability** No data available.
- **12.3 Bioaccumulative potential** No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No data available.

Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. TRANSPORT INFORMATION 14.1 UN number ADR/RID: -IMDG: -IATA: -14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: -IMDG: -IATA: -14.4 Packaging group IMDG: -IATA: -ADR/RID: -14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no 14.6 Special precautions for user None 14.7 Maritime transport in bulk according to IMO instruments Not Applicable. **Further information** Not classified as dangerous in transport regulations.

Section 15. REGULATIONS INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.



15.2 Chemical safety assessment Not necessary

Section 16. OTHER INFORMATION

- **16.1 List of R, H and P phrases** Full text of H-Statements referred to under sections 2 and 3.
- **16.2 Training Advice** Regular safety training.
- **16.3 Recommended Restriction on Use** Only for professional/research user.

Section 1. IDENTIFICATION

1.1 Product Identifier

Commercial Product Name: FABR Buffer

1.2 Relevant identified uses of the substance or mixture and uses advised against Product form: Laboratory chemical mixture/Lysis Buffer

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Company: Favorgen Biotech Corp. Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, TAIWAN Phone Number: +886-8-762-1829

1.4 Emergency telephone number

+886-8-762-1829

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories

Acute oral toxicity	Category 4	
Skin burns/eye damage	Category 1	
Aquatic Chronic	Category 3	

GHS hazard pictograms:

Signal word: DANGER



Hazard statement(s)	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/ hearing protection/
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

According to Regulation (EC) No 1907/2006



P330 Rinse mouth. **5.2 Label elements** According to section 1.5.2 of Annex I to CLP GHS symbol GHS05 GHS05 DANGER Hazard contents Guanidinium thiocyanate, 20~50%, CAS-No. 593-84-0 **2.3 Other hazards** Not applicable

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances or 3.2 Mixtures Chemical: Concentration: Classification:

Guanidinium thiocyanate 20~50% H302, Acute oral Tox. 4, H314, Skin Irrit/Eye Irrit. 1, H412, 3 CAS No.: 593-84-0

Section 4. FIRST AID MEASURES

4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

In case of skin contact

- After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of eye contact
- After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. If swallowed
- After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. If in eyes
 - Rinse cautiously with water for several minutes

4.2 Most important symptoms and effects, both acute and delayed

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H412 Harmful to aquatic life.
- 4.3 Indication of any immediate medical attention and special treatment needed
 - No data available

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media: water foam carbon dioxide (CO2) dry powder; All extinguishers can be used.

- 5.2 Special hazards arising from the substance or mixture None.
- **5.3 Advice for firefighters** No specific fire or explosion hazard.
- 5.4 Additional Information

Section 6. ACCIDENTAL RELEASE MEASURE

According to Regulation (EC) No 1907/2006



6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

6.2 Environmental precautions

Do not allow mixture to enter ground water system.

6.3 Methods and material for containment and cleaning up Soak up with inert absorbent material.

6.4 Reference to other sections

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

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

7.3 Specific end use(s)

For research use only.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: None

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Ingredients: guanidinium thiocyanate

CAS-No.: 593-84-0

8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

Personal protective equipment

Eye/face protection: Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Recommended to avoid contamination with these hazards.

Hand protection: Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid/Color: clear/Odor: odorless/pH: 7.0~7.5

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Decompositions are not observed during the expiration period under recommended conditions.

Material Safety Data Sheet According to Regulation (EC) No 1907/2006



10.2 Chemical stability

Decompositions are not observed during the expiration period under recommended conditions.

10.3 Possibility of hazardous reactions

Note: Thiocyanates can develop poisonous gas in contact with strong acids. Keep away from oxidizing agents, and acidic or alkaline.

10.4 Conditions to avoid

Not necessary.

10.5 Incompatible materials

Note: Avoid contact with strong acids or alkaline.

10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)	
Guanidinium thiocyanate	1,578 mg/kg	2,926 mg/kg	29.26 mg/l	
CAS No.: 593-84-0	1,576 mg/ kg	2,520 mg/ kg	Exposure time: 4 h/ vapor	
Skin corrosion/irritation			Skin irritation	
Serious eye damage/irritation			Causes eye damage	
Respiratory or skin sensitization			Not Classified	
Germ cell mutagenicity			Not Classified	
Carcinogenicity			Not Classified	
Reproductive toxicity			Not Classified	
Specific target organ toxicity (STOT) – single exposure			Not Classified	
Specific target organ toxicity (STOT) – repeated exposure		sure	Not Classified	
Aspiration hazard			Not Classified	

11.2 Information on other hazards

No data available.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Following information is valid for pure substances. Guanidinium thiocyanate CAS No.: 593-84-0LC50 leuciscus idus/96h: 1759 mg/L WGK (DE): 1 WGK No.: 0788 Storage class (VCI): 12

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment No data available

12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No additional data available.

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Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: -	IMDG: -	IATA: -
14.2 UN proper shipping name ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IMDG: Not dangerous goods
14.3 Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazards ADR/RID: No	IMDG Marine pollutant: No	IATA-DGR: No
14.6 Special precautions for user None.		
14.7 Maritimo transport in bulk according	to IMO instruments	

14.7 Maritime transport in bulk according to IMO instruments Not Applicable.

Further information

Not classified as dangerous in transport regulations.

Section 15. REGULATIONS INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.

15.2 Chemical safety assessment

Not necessary.

Section 16. OTHER INFORMATION

16.1 List of R, H and P phrases Full text of H-Statements referred to under sections 2 and 3.

16.2 Training Advice

Regular safety training.

16.3 Recommended Restriction on Use

Only for professional/research user.

Section 1. IDENTIFICATION

1.1 Product Identifier

Commercial Product Name: Wash Buffer 1

1.2 Relevant identified uses of the substance or mixture and uses advised against Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.

ORGEN

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Company: Favorgen Biotech Corp. Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, TAIWAN Phone Number: +886-8-762-1829

1.4 Emergency telephone number +886-8-762-1829

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories				
Acute oral toxicity Category 4				
	Skin corrosion/irritation	Category 2		
	Serious eye damage/eye irritation	Category 2		

GHS hazard pictograms:



Signal word: WARNING	
Hazard statement(s)	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects
Precautionary statement(s)	
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/ eye protection/ face protectio
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing
P330	Rinse mouth
P332 + P313	If skin irritation occurs: Get medical advice/attention

2.2 Label elements

According to section 1.5.2 of Annex I to CLP



36~50%, CAS-No. 50-01-1

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3.1 Substances or 3.2 Mixtures

Chemical: Concentration: Classification:

Guanidine hydrochloride 36~50% H302, Acute oral Tox. 4, H315, Skin Irrit. 2, H319, Eye Irrit. 2

CAS No.: 50-01-1



Section 4. FIRST AID MEASURES

4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

In case of skin contact

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life.
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available.

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

All extinguishers can be used.

- 5.2 Special hazards arising from the substance or mixture None known.
- **5.3 Advice for firefighters** No specific fire or explosion hazard.

5.4 Additional Information

Section 6. ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

6.2 Environmental precautions

Do not allow mixture to enter ground water system.

6.3 Methods and material for containment and cleaning up Soak up with inert absorbent material.

6.4 Reference to other sections

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

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

7.3 Specific end use(s)

For research use only.

According to Regulation (EC) No 1907/2006



CAS No.: 50-01-1

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: None

Chemical: Guanidine hydrochloride NIOSH: not listed OSHA: not listed

8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

Personal protective equipment

Eye/face protection: Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Recommended to avoid contamination with these hazards.

Hand protection: Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid/Color: clear/Odor: odorless/pH: 4.0~4.5

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents.

10.4 Conditions to avoid

Not necessary.

10.5 Incompatible materials

Note: Avoid contact with strong acids or alkalines.

10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not Classified

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Guanidine hydrochloride CAS No.: 50-01-1	475-907 mg/kg	2000 mg/kg	[4h] 3181-7655 μg/m³
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity		Not Not Not	irritation/Irritating to eyes Classified Classified Classified Classified



Reproductive toxicity Specific target organ toxicity (STOT) – single exposure Specific target organ toxicity (STOT) – repeated exposure Aspiration hazard

Not Classified Not Classified Not Classified Not Classified

11.2 Information on other hazards

No data available.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Following information is valid for pure substances. Guanidine hydrochloride CAS No.: 50-01-1 LC50leuciscus idus/96h: 1759 mg/L WGK (DE): 1 WGK No.: 0788 Storage class (VCI): 12

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential No data available.

- 12.4 Mobility in soil
 - No data available.

12.5 Results of PBT and vPvB assessment No data available.

No data available.

12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No data available.

Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. TRANSPORT INFORMATION 14.1 UN number ADR/RID: -IMDG: -IATA: -14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: -IMDG: -IATA: -14.4 Packaging group ADR/RID: -IMDG: -IATA: -14.5 Environmental hazards ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No 14.6 Special precautions for user None.

14.7 Maritime transport in bulk according to IMO instruments

^{13.1} Waste treatment methods



Not Applicable.

Further information

Not classified as dangerous in transport regulations.

Section 15. REGULATIONS INFORMATION

- **15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture** Look for your country-specific regulations.
- **15.2 Chemical safety assessment** Not necessary.

Section 16. OTHER INFORMATION

- **16.1 List of R, H and P phrases** Full text of H-Statements referred to under sections 2 and 3.
- **16.2 Training Advice** Regular safety training.
- **16.3 Recommended Restriction on Use** Only for professional/research user.

Section 1. IDENTIFICATION

1.1 Product Identifier

- Commercial Product Name: RNase-Free Water
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Company: Favorgen Biotech Corp. Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, TAIWAN Phone Number: +886-8-762-1829

1.4 Emergency telephone number

+886-8-762-1829

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

No hazardous substance as specified in Regulation (EC) No 1272/2008.

2.2 Label elements

Does not need labelling as hazardous.

2.3 Other hazards

Not applicable.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances or 3.2 Mixtures Chemical:

chemicals/mixture < 1%, no declaration necessary

CAS No.: ------

According to Regulation (EC) No 1907/2006



Concentration: 0.1 - <1%

Section 4. FIRST AID MEASURES

4.1 Description of first-aid measures
If inhaled
Supply fresh air.
In case of skin contact
Remove contaminated clothing. Rinse skin with water/shower.
In case of eye contact
Rinse out with plenty of water.
If swallowed
Consult a doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed No information available.

4.3 Indication of any immediate medical attention and special treatment needed No information available.

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media All extinguishers can be used.

- 5.2 Special hazards arising from the substance or mixture None.
- **5.3 Advice for firefighters** No explosion hazard.
- 5.4 Additional Information

Section 6. ACCIDENTAL RELEASE MEASURE

- 6.1 Personal precautions, protective equipment, and emergency procedures Ensure adequate ventilation.
- 6.2 Environmental precautions
 - Do not allow mixture to enter ground water system.
- 6.3 Methods and material for containment and cleaning up Soak up with inert absorbent material.

6.4 Reference to other sections

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

- 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.
- 7.3 Specific end use(s)

For research use only.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Contains no substances with occupational exposure limit.

8.2 Exposure controls

Personal protective equipment Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice. Eye/face protection: Tight sealing safety glasses. Hand protection: Protective gloves. Respiratory protection: Not necessary, if the workplace is well-ventilated.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance: liquid/ Color: Clear/ Odor: odorless/pH:4~5.5/Specific gravity: 1.0 g/cm³

9.2 Other information

Section 10. STABILITY AND REACTIVITY

- 10.1 Reactivity None.
- 10.2 Chemical stability

No data available.

- 10.3 Possibility of hazardous reactions None.
- 10.4 Conditions to avoid Not necessary.
- 10.5 Incompatible materials None.

10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	Not Classified
Skin corrosion/irritation	Not Classified
Serious eye damage/irritation	Not Classified
Respiratory or skin sensitization	Not Classified
Germ cell mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductive toxicity	Not Classified
Specific target organ toxicity (STOT) – single exposure	Not Classified
Specific target organ toxicity (STOT) – repeated exposure	Not Classified
Aspiration hazard	Not Classified

11.2 Information on other hazards

No data available.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous to the ecosystem.

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative potential

Material Safety Data Sheet According to Regulation (EC) No 1907/2006



No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No data available.

Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: -	IMDG: -	IATA: -
ADIQUID.	iniba.	
14.2 UN proper shipping name		
ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IMDG: Not dangerous goods
14.3 Transport hazard class(es)		
ADR/RID: -	IMDG: -	IATA: -
14.4 Packaging group		
ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazards		
ADR/RID: No	IMDG Marine pollutant: No	IATA-DGR: No
14.6 Special precautions for user		
None		
14.7 Maritime transport in bulk accord	ing to IMO instruments	
Not Applicable.		
Further information		

Not classified as dangerous in transport regulations.

Section 15. REGULATIONS INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.

15.2 Chemical safety assessment

Not necessary.

Section 16. REGULATIONS INFORMATION

16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

16.2 Training Advice

Regular safety training.



16.3 Recommended Restriction on Use

Only for professional/research user.

Section 1. IDENTIFICATION

- 1.1 Product Identifier Commercial Product Name: Lysozyme (Lyophilized)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Company: Favorgen Biotech Corp. Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, TAIWAN Phone Number: +886-8-762-1829

1.4 Emergency telephone number

+886-8-762-1829

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

No hazardous substance as specified in Regulation (EC) No 1272/2008.

2.2 Label elements

Does not need labelling as hazardous.

2.3 Other hazards

Not applicable.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

 3.1 Substances or 3.2 Mixtures

 Chemical:
 chemicals/mixture < 1%,</td>
 no declaration necessary

 Concentration:
 0.1 - <1%</td>

Section 4. FIRST AID MEASURES

- 4.1 Description of first-aid measures
 - If inhaled
 - Supply fresh air.
 - In case of skin contact
 - Remove contaminated clothing. Rinse skin with water/shower. In case of eye contact
 - Rinse out with plenty of water.
 - If swallowed
 - Consult a doctor if feeling unwell.
- **4.2 Most important symptoms and effects, both acute and delayed** No information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No information available.

Section 5. FIRE-FIGHTING MEASURES

CAS No.: ------

FAVORGEN

According to Regulation (EC) No 1907/2006

- **5.1 Extinguishing media** All extinguishers can be used.
- 5.2 Special hazards arising from the substance or mixture None.
- **5.3 Advice for firefighters** No explosion hazard.
- 5.4 Additional Information

Section 6. ACCIDENTAL RELEASE MEASURE

- 6.1 Personal precautions, protective equipment, and emergency procedures Ensure adequate ventilation.
- 6.2 Environmental precautions Do not allow mixture to enter ground water system.
- 6.3 Methods and material for containment and cleaning up Soak up with inert absorbent material.

6.4 Reference to other sections

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

For research use only.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Contains no substances with occupational exposure limit.

8.2 Exposure controls

Personal protective equipment

Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.
Eye/face protection: Tight sealing safety glasses.
Hand protection: Protective gloves.
Respiratory protection: Not necessary, if the workplace is well-ventilated.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- Appearance: Lyophilized powder/ Color: White/ Odor: odorless

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity None.

10.2 Chemical stability

According to Regulation (EC) No 1907/2006



No data available.

10.3 Possibility of hazardous reactions None.

10.4 Conditions to avoid

- Not necessary.
- **10.5 Incompatible materials** None.

10.6 Hazardous decomposition products Decompositions are not observed during the expiration period under recommended conditions.

Section 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (STOT) – single exposure Specific target organ toxicity (STOT) – repeated exposure Aspiration hazard
- Not Classified Not Classified

11.2 Information on other hazards

No data available.

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12.1 Toxicity

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12.2 Persistence and degradability

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Material Safety Data Sheet According to Regulation (EC) No 1907/2006



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14.3 Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -		
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -		
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA-DGR: no		
14.6 Special precautions for user None.				
14.7 Maritime transport in bulk according to IMO instruments Not Applicable.				
Further information Not classified as dangerous in trans	sport regulations.			

Section 15. REGULATIONS INFORMATION

- 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.
- 15.2 Chemical safety assessment
 - Not necessary.

Section 16. REGULATIONS INFORMATION

16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

16.2 Training Advice

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16.3 Recommended Restriction on Use

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