

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

- Business Unit: Molecular Biology
- Production Name: *miTotal*TM RNA Extraction Miniprep System
- Catalogue Number: VTR1002

<u>Component:</u>	<u>Component Part Number</u>
VRX Buffer	VRX0130
WS Buffer	WS00030
RNase-free dd H ₂ O	RH2O015

- Manufacturer/ Supplier: **VIOGENE BIOTEK CORP.**
Address: 10F, No.276, Da-Tung Rd., Sec.1,
Sijhih Dist., New Taipei City, Taiwan, R.O.C.
Tel: + 886 2 26472259

- Preparation Date: ____ / ____ / ____
- Contact / Preparatory: Simon Chou
- Information Number: + 886 2 2647 2259

[NOTE:] The emergency number to be used particularly in emergencies involving a non-specific accident spill, leak, fire or exposure.

2. COMPOSITION / DATA ON COMPONENTS

- Chemical characterization
- Description: Mixture of the substances with non-hazardous additions as below listed.

3. HAZARDS IDENTIFICATION

- *Potential health effects:*

- Eyes:** Can cause moderate irritation, tearing and redeeming, but not likely to permanently inure eye tissue.
- Skin:** Can cause moderate skin irritation, defeating, and dermatitis. Not likely to cause permanent damage.
- Inhalation:** Can cause moderate respiratory irritating, dizziness, weakness, fatigue, No toxicity expected from inhalation.

Material Safety Data Sheet

Ingestion: Irritating to mouth, throat, and stomach. can cause abdominal discomfort, nausea, vomiting and diarrhea.

Chronic: No data on cancer.

4. FIRST AID MEASURES (CONT.)

■ *Potential health effects:*

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often.
Tilt the head to prevent chemical from transferring to the uncontaminated eye.
Get immediate medical attention.

Skin: Wash with soap and water. Remove contaminated clothing and launder.
Set medical attention if irritation develops or persists.

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
If not breathing, give artificial respiration and have a trained individual administer oxygen.
Get medical attention immediately.

5. FIRE FIGHTING MEASURES

■ Upper Flammable Limit %: N/A

■ Lower Flammable Limit %: N/A

■ Autoignition temperature Deg. C.: N/A

■ *Extinguishing media:* Not combustible. Use extinguishing media appropriate for surrounding fire.
Use water spray/ fog for cooling.

[NOTE:] Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

6. ACCIDENTAL RELEASE MEASURES

■ Equipment following the recommendation of section at a minimum.

■ Dike with suitable absorbent material like granulated clay.

■ Gather and store in a sealed container pending a waste disposal evaluation.

Material Safety Data Sheet

7. HANDLING AND STORAGE

- Storage at room temperature, and keep closed or cover when not in use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

- *Engineering controls:* No exposure limits exist for the constituents of this products. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

- *Personal protection:*

Eyes: Safety glasses should be the minimum eye protection.
Wear sealed goggles.

Skin: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating. Having a safety shower available.

9. PHYSICAL AND CHEMICAL PROPERTIES:

N/A

10. STABILITY AND REACTIVITY (CONT.)

- Stable under normal conditions:
- *Conditions to avoid:* Strong oxidizing agents. High temperatures.

11. TOXICOLOGICAL INFORMATION

- *Personal protection:*

Eyes: Irritating effect.

Skin: Irritant to skin and mucous membranes.

Sensitization: No sensitizing effects known.

Additional toxicological information: The product is no subject to classification according to internally approved calculation methods for preparations.

12. ECOLOGICAL INFORMATION:

N/A

Material Safety Data Sheet

13. DISPOSAL CONSIDERATIONS:

N/A

14. TRANSPORT INFORMATION:

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

15. REGULATORY INFORMATION:

N/A

16. OTHER INFORMATION:

■ **Other Comment:** N/A – Not available or no information.

■ **Disclaimer:** This information contained herein is based upon our efforts to acknowledge. However, we do not warrant the accuracy of this information. In no case shall VIOGENE does constitute a warranty for incidental or consequential damages, including lost profits.