

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Trade Name:	Viral DNA / RNA Nucleic Acid Extraction Kit (Magnetic Bead Method)
Catalog Number:	N/A
1.2 Relevant identified uses of the substance or mixture and uses advised against	
This kit can be used to quickly extract viral DNA and RNA from a variety of liquid samples such as human serum and plasma. The purified viral nucleic acid can be directly used in downstream analysis, such as PCR amplification, cloning, and sequence analysis. It is suitable for the diagnosis of pathogen, forensic analysis and genetic mutations detection. This kit can be used manually or automatically with applicable extractors to obtain DNA and RNA within 40 minutes.	
1.3 Details of the supplier of the safety data sheet	
Manufacturer:	Jiangsu Mole Bioscience Co., Ltd.
Address:	6-7th Floor, G116 Building, No.805, Jiankang Avenue, Medical New&Hi-tech District, Taizhou, Jiangsu Province, China
Phone number:	Phone number is available during office hours as follows: +86 523 86086060
Fax number:	+86 523 86086060
E-Mail:	sales@molechina.com
1.4 Emergency Telephone Number	
Contact the regional poison Control Center	

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Classification according to regulation (EC) No. 1272/2008 appendix VII: Not applicable	
Chemical Ingredient Chemical Data / Information	
Classification according to regulation 67/548/EEC or regulation 1999/45/EC: Not applicable	
2.2 Label elements	
<i>Labelling according to regulation (EC) No. 1272/2008</i>	
The product does not need to be labelled in accordance with EC directives or respective national laws.	
<i>Hazard pictograms and Signal word: No</i>	
<i>Hazardous components for labeling: No</i>	
<i>Hazard statements: No</i>	
<i>Precautionary statements: No</i>	
2.3 Other hazards	
No	

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances					
This product is a mixture					
3.2 Mixtures					
Component	CAS No.	EINECS No.	REACH Registration No.	Classification: Category Codes/ Hazard statement	W/W %
Magnetic Beads	Not available	Not available	Not available	Not available	
Guanidine Hydrochloride	50-01-1	200-002-3	Not available	Harmful if swallowed H302 Harmful if inhaled H332 Skin irri.H315 Eye irri.H319	1-1.5%
Guandine thiocyanate	593-84-0	209-812-1	Not available	Skin irr.H315 Eye irr.H319 Resp. irri.H335 Harmful if swallowed H302 Harmful in contact with skin H312 Harmful if inhaled H332 Harmful to aquatic life H402 Harmful if swallowed + Harmful in contact with skin +Harmful if inhaled H302+H312+H332 severe skin burns and eye damage H314 Harmful to aquatic life with long lasting effects H412	<0.01%
Tris(hydroxymethyl) methylaminomethane THAM	77-86-1	201-064-4	Not available	Skin irr.H315 Causes serious eye irritation H319 May cause respiratory irritation H335	<0.1%

Magnesium chloride hexahydrate	7791-18-6	616-575-1	Not available	Skin irr.H315 Eye irr.H320 Resp. irr.H335	<0.1%
Triton X-100	9002-93-1	618-344-0	Not available	Harmful if swallowed H302 Skin irr. H315 Causes serious eye damage H318 Very toxic to aquatic life with long lasting effects H410 Causes serious eye irritation H319 Toxic to aquatic life with long lasting effects H411 Harmful to aquatic life with long lasting effects H412 Harmful to aquatic life H402	<0.1%
Hydrochloric acid	7647-01-0	231-595-7	Not available	Skin irr.H315 Highly flammable liquid and vapour H225 Causes severe skin burns and eye damage H314 Causes skin irritation H318 May cause drowsiness or dizziness H336 Fatal in contact with skin H311 Toxic if inhaled H331	<0.1%
Protease K	39450-01-6	254-457-8	Not available	Skin irr.H315 Causes serious eye irritation H319 May cause allergy or asthma symptoms or breathing difficulties if inhaled H334 May cause respiratory irritation H335	<0.1%
Tween-20	9005-64-5	500-018-3	Not available	Eye irri.H319 Harmful if swallowed H302 Resp. irr.H335 Skin irr.H315	<0.1%
RNA carrier	120927-96-0	Not available	Not available	Not available	<0.1%

4 FIRST-AID MEASURES

4.1 Description of first aid measures	
<i>After inhalation</i>	Remove person from exposure area to fresh air. If breathing becomes difficult, immediately call for emergency medical assistance. Treat symptomatically and supportively. Generally, this aqueous product is not a significant inhalation hazard in the kit volumes and concentrations present.
<i>After skin contact</i>	Remove contaminated clothing. Flush skin with copious water and wash affected area with soap and water. If blood-to-blood contact occurs or if more severe symptoms develop, consult a physician.
<i>After eye contact</i>	Flush eyes with copious water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers while flushing with water. OBTAIN MEDICAL ATTENTION.
<i>After Ingestion</i>	If ingested, wash out mouth thoroughly with water, provided the person is conscious, and OBTAIN MEDICAL ATTENTION. Call a physician or the local poison control center. Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.
4.2 Most important symptoms and effects, both acute and delayed	
Not applicable.	
4.3 Indication of any immediate medical attention and special treatment needed	
No data available.	

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media	
<i>Suitable extinguishing media:</i>	The common fire extinguisher media can be used
<i>Unsuitable extinguishing media:</i>	Not investigate
5.2 Special hazards arising from the substance or mixture	
Not find yet	
5.3 Advice for fire-fighters	
Dry-chemical fire extinguisher	

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures
Avoid direct contact with skin, eyes, mucous membranes and clothing by wearing appropriate lab personal protective equipment (PPE) including gloves, lab coat and eye/face protection.
6.2 Environmental precautions
Avoid release to the environment.
6.3 Methods and material for containment and cleaning up
Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.
6.4 Reference to other sections
Collect material and dispose of waste according to section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling
General hygiene measures: Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed in a dry and well-ventilated place.
7.2 Conditions for safe storage, including any incompatibilities
Information about storage conditions: Note the storage conditions on product packaging. Requirements for storage rooms and containers: Store in a dry and well-ventilated place..
7.3 Specific end uses
Used for sample collection, transmission and preservation.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.	
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
8.2.2 Personal protective equipment	
<i>General protective and hygienic measures:</i>	Adhere to good laboratory practices (GLP) Wash hands before breaks and at the end of work.
<i>Respiratory protection</i>	Not required
<i>Protective gloves</i>	Disposable gloves
<i>Material of gloves</i>	Latex/natural rubber
<i>Penetration time of glove material</i>	Gloves resistance is not critical when the product is handled according to the instruction for use.
<i>Eye Protection</i>	Safety glasses
<i>Body protection</i>	Lab coat
8.2.3 Environmental exposure controls	
There are no special precautions and measures. See section 6 and 7!	

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
<i>Physical State:</i>	Liquid
<i>Colour:</i>	Colorless
<i>Odour:</i>	Odourless
<i>Odour threshold:</i>	Not established
<i>Flash point:</i>	Not established
<i>Self-igniting:</i>	Product is not known to be self-igniting
<i>Danger of explosion:</i>	There is no substances in the kit could lead to the danger of explosion
<i>Melting point:</i>	Not established
<i>Boiling point:</i>	Not established
<i>Vapour pressure:</i>	Not established
<i>Density (20°C):</i>	Not established
<i>pH-value at 20°C:</i>	Not established
<i>Solubility in water:</i>	The product could solute in water easily
9.2 Other safety information:	
No	

10 STABILITY AND REACTIVITY

10.1 Reactivity	The product is stable in accordance with the recommended storage conditions.
10.2 Chemical stability	All the chemicals in the test kits are stable.
10.3 Possibility of hazardous reactions	Almost impossible
10.4 Conditions to avoid	Temperature out of 2-30°C
10.5 Incompatible materials	No
10.6 Hazardous decomposition products	No

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Mixture)	
Acute toxicity:	Quantitative data on the toxic effects of this product is not available.
Irritation:	Irritating to skin and severely irritating or corrosive to eyes and, with greater exposures, can cause eye damage, including permanent impairment of vision or blindness.
Corrosivity:	Corrosive to eyes; with greater exposures may cause eye injury. Harmful if swallowed.
Sensitisation:	Contains a small volume of a very dilute, sensitizing preservative (ProClin™ 300). Though the potential for an allergic response is greatly reduced by the dilution, sensitization threshold is unknown; thus, handle accordingly.
Repeated dose toxicity:	Not yet investigate
Carcinogenicity:	Not yet investigate
Mutagenicity:	Not yet investigate
Toxicity for reproduction:	No reproductive toxic effect known.

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	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects	No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
<i>Product:</i>	Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.
<i>European waste catalogue:</i>	18 01 03 wastes whose collection and disposal is subject to special requirements in order to prevent infection.
<i>Packaging:</i>	Disposal must be made in accordance with local waste management regulations. Contaminated packaging must be disposed of in the same manner as the product. Non-Contaminated packaging materials may be recycled. Contact your local service providers for further informations.

14 TRANSPORT INFORMATION

14.1 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.2 Transport hazard class

ADR/RID: - IMDG: - IATA: -

14.3 Packing group

ADR/RID: - IMDG: - IATA: -

14.4 Environmental hazards

 ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: Yes / No

 Marine Pollutant: Yes / No

14.5 Special precautions for user

See sections 6-8

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Delivery will only be taken in suitable and regulatory approved packaging

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations:

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

The mixture was not subjected to security assessment

16 OTHER INFORMATION

General information

The information and recommendations presented in this MSDS are based on sources believed to be accurate. It is the user's responsibility to determine the suitability of the information for their particular purposes.