



# MATERIAL SAFETY DATA SHEET

## Viral RNA Extraction Kit

### SECTION 1. IDENTIFICATION

<b>Product name</b>	Viral RNA Extraction Kit
<b>Catalogue number</b>	ZX-22101-500
<b>Manufacturer or supplier's details</b>	ZellBio GmbH . Krantorweg 48c . 13503 Berlin
<b>Telephone</b>	0049-30 81309085
<b>Fax</b>	0049-30 81309086
<b>Email</b>	support@zellx.de

### SECTION 2. HAZARDS IDENTIFICATION



Regulation (EC) No. 1272/2008 [CLP/GHS]

Lysing Buffer  
Wash Buffer 1

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Acute toxicity, Category 4  
Skin irritation, Category 2  
Serious eye damage, Category 1

**Hazard statements**

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Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye damage.

**Precautionary statements**

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Wash hands thoroughly after handling.  
Wear protective gloves, clothing, and eye/face protection.

### SECTION 3. FIRST AID MEASURES

**General advice**

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Show this material safety data sheet to the doctor in attendance.

**If inhaled**

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If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.

**In case of skin contact**

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If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

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**In case of eye contact**

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist

**If swallowed**

Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

**SECTION 4. INFORMATION ON INGREDIENTS****Components:**

Minispin Columns - Collection tubes - RNase free water - Wash Buffer 1 - Wash Buffer 2 - Lysing Buffer Carrier RNA

Description:	Chemical Name	CAS No	Percent
Lysing Buffer	Guanidine-hydrochloride	50-01-1	25-50%
	Triton X-100	9002-93-1	2-3%
Wash Buffer 1	Guanidine-hydrochloride	50-01-1	>60%

Additional components of the kit are non-hazardous or the specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret.

ZX-22101-500

**SECTION 5. FIRE-FIGHTING MEASURES****Decomposition**

Dangerous decomposition is not anticipated.

**Extinguishing Media**

Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Firefighting**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**  
**Methods and materials for containment and cleaning up**  
**Environmental precautions**

Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Keep in suitable, closed containers for disposal.  
Discharge into drains should be avoided.

## SECTION 7. HANDLING AND STORAGE

**Handling**

Avoid getting components of this kit on you or in you. Do not breathe vapor.  
Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit.  
Qualified and experienced professionals should only handle this kit.

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**Storage**

Store according to the package insert instructions.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls**

No special engineering controls are required when working with this kit.  
Use with adequate ventilation.

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**Protective Equipment**

Safety glasses are recommended to prevent eye contact. Chemical resistant gloves, lab coat should be worn to prevent skin contact.

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## SECTION 9. STABILITY AND REACTIVITY

**Stability**  
**Hazardous Decomposition Products**

This material is stable until the expiration date on the kit if stored as directed.  
Thermal decomposition may release toxic fumes  
Strong acids and oxidizing agents. Bases. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Nitrogen oxides (NOx). Ammonia. Gaseous hydrogen chloride (HCl).

**Incompatibilities**

## SECTION 10. TOXICOLOGICAL INFORMATION

**Route of Exposure**

**Skin Contact:** May cause discoloration of the skin, sensitization dermatitis.  
**Skin Absorption:** May be harmful if absorbed through the skin.  
**Eye Contact:** May cause eye irritation.  
**Inhalation:** May be harmful if inhaled.  
**Ingestion:** Harmful if swallowed.

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**Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 11. ECOLOGICAL INFORMATION**

**Water hazard class 1**

Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 12. DISPOSAL CONSIDERATIONS**

**Appropriate Method of Disposal of Substance**

**Waste disposal route:** Used reagent can be disposed of in the waste water in accordance with local regulations.  
**Disposal of empty packaging:** Dispose of empty packs by local recycling or waste disposal routes if necessary, clean them beforehand.

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**SECTION 13. TRANSPORT INFORMATION**

**U.S. and Canadian Transportation; DOT**

**Proper Shipping Name:** Chemical Kits  
**UN Identification Number:** Not regulated as a dangerous good  
**Class and Description:** Not regulated as a dangerous good  
**Packing Group:** Not regulated as a dangerous good  
**Hazard Label:** Not regulated as a dangerous good

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**International Air Transportation (IATA)**

**Proper Shipping Name:** Chemical Kits  
**UN Identification Number:** Not regulated as a dangerous good  
**Class and Description:** Not regulated as a dangerous good  
**Packing Group:** Not regulated as a dangerous good  
**Label Class:** Not regulated as a dangerous good

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**SECTION 14. REGULATORY INFORMATION**

**Product related information**  
**Safety Statements**  
**Risk Statements**  
**U.S. Regulatory Information**

The product is not subject to classification according to the sources of literature known to us. Observe general safety regulations when handling chemicals.

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Avoid release to the environment.  
Harmful if swallowed.  
Sara Listed: NO

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## SECTION 15. OTHER INFORMATION

**Department**  
**Last Revision**  
**Disclaimer:**

R&D - ZELLX project - ZellBio GmbH  
09.05.2020

For Research Use Only. Not for diagnostic, therapeutic, or other uses.

**Other Information**

The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. ZELLX® shall not be held liable for any damage resulting from use or handling of this product.

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