

Extraction Buffer Safety Data Sheet

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

Identification of the substance: Extraction Buffer

Product numbers:

LumiraDx Spec Number	Product Description	Kit Size
S-QMS-SPEC-31751	Extraction Buffer for LumiraDx Covid & Flu Swab based assays and Nozzle Cap	12
S-QMS-SPEC-33844	Extraction Buffer for LumiraDx Covid & Flu Swab based assays and foil seal	12
S-QMS-SPEC-32381	EMB Extraction Buffer	12

Reach No: The product(s) contains substances that are exempt from registration in accordance with the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Use of the substance: Extraction buffer is for use in conjunction with LumiraDx swab based assays, for example SARS-CoV-2, and is designed to lyse and inactivate the virus to release viral antigen. Each vial of extraction buffer is for single use.

Company identification: LumiraDx UK Ltd,
Dumyat Business Park,
Alloa
FK10 2PB
United Kingdom

Emergency telephone: 00800 58647239

Customer Services Email: customerservices@lumiradx.com

Website: www.lumiradx.com

2. HAZARDS IDENTIFICATION

Principle routes of exposure: Ingestion, eye contact and/or skin contact.

Ingestion: Ingestion of extraction buffer may cause nausea, vomiting, restlessness, diarrhoea, headache, dizziness, weakness, blurred vision, dyspnoea, hypotension, tachycardia, bradycardia, tachypnoea, hypothermia, acidosis and convulsions.

Skin contact: Contact with skin may cause irritation.

Eye contact: Contact with eyes may cause irritation.

Hazardous decomposition products: When exposed to fire, produces normal products of combustion.

Unusual fire, explosion and reactivity hazards: The LumiraDx Extraction Buffer contains Sodium azide, which may over a period of time react with metal in plumbing systems to form an accumulation of explosive metallic azide, therefore it should be discarded with a large quantity of water.

3. INFORMATION ON INGREDIENTS

Material within the Extraction Buffer: Colourless, clear liquid containing a mix of components

Component	Concentration
Tris (Hydroxymethyl) aminomethane	50-500mM
Hydrochloric acid	Less than 0.01%
Detergent	0.50%
Polyoxyethylene sorbitane monolaurate	1.00%
Sodium azide	0.09%

Hazardous Components: None in reportable quantities.

4. FIRST AID MEASURES

Inhalation: In case of inhalation, immediately move person into fresh air and make them gargle. If symptoms persist, consult a physician.

Skin contact: In case of skin contact, immediately wash affected area with soapy water and rinse thoroughly.

Ingestion: If swallowed, drink a large volume of water and induce vomiting. If symptoms persists, consult a physician.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a physician.

5. FIRE-FIGHTING

5.1. FIRE-FIGHTING MEASURES

Flash point: Not applicable.

Flammable limits (Upper/Low): Not applicable.

Suitable extinguishing media: Use BC-power, CO2 or water spray.

Special firefighting procedure: Not applicable.

Unusual hazards: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

In case of spill or leak: In case of spill or leak, wear appropriate personal protective equipment. Soak up spillage with inert absorbent material and dispose of as hazardous waste. Keep in suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage: Avoid contact with eyes, skin and clothing. Wear appropriate PPE when handling.

Storage conditions: Store in a cool and dry place (2°C-30°C), avoiding high temperature, high humidity and direct sunlight.

Handle conditions: Avoid rough handling, such as tumbling, dropping, shocking and dragging the storage vessel. Prevent leaking and splashing of buffer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required.

Skin: Handle with gloves when performing a test. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands thoroughly.

Eye: None required.

Ventilation: Normal ventilation exposure controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Appearance:** Colourless, clear liquid.

Physical state: Liquid.

9.2. **Important health, safety and environmental information**

Boiling point: Not applicable.

pH: 7.5 – 7.6 (25°C).

Solubility in Water: Not applicable.

Vapor Pressure: Not available.

Vapor Density (air = 1): Not available.

Evaporation Rate (water = 1): Not applicable.

Appearance: Colourless, clear liquid.

Odour: None.

10. STABILITY AND REACTIVITY

Stability: Stable when stored between 2°C-30°C, avoiding high temperature, high humidity and direct sunlight.

Conditions to avoid: Temperature below 2°C and above 30°C, direct sunlight and conditions of high humidity.

Materials to avoid: None.

Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

Sodium azide CAS No. 26628-22-8

Acute Toxicity:

Human	TDL ₀	710ug/kg	General anaesthesia, unconsciousness, light-headedness, urinary organ disorder
Rat	LD ₅₀	27mg/kg	
Mouse	LD ₅₀	28mg/kg	
Rabbit	LD ₅₀	20mg/kg	

Irritation: No data is available on the product itself.

Mutagenicity: Mutagenicity examination which uses microorganisms: *E.coli* (150nmol/ml), *Salmonella* (10ug/plate). DNA Inhibition test: Human fibroblast (50mg/ml).

Carcinogenicity: No mention of associated carcinogenicity within OSHA, NTP or IARC.

Chronic toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

No ecological information available.

13. DISPOSAL CONSIDERATIONS

Appropriate methods of disposal: Dispose waste in accordance with Federal, State, and Local regulations.

European Community (EC) consideration: Use appropriate waste codes based on ingredients

14. TRANSPORT INFORMATION

IATA/DOT/IMDG

UN-Number: Not applicable.

Material Proper shipping name: Extraction Buffer.

Hazard class: Non-Hazardous.

Transport Considerations: Transport product within temperature range of 2°C - 30°C. Ensure product is not dropped or damaged during transport.

15. REGULATORY INFORMATION

European labelling in accordance with EC Directives Hazard Symbols: Not applicable.

Risk Phrases: None.

Additional information: Consult country codes for specific requirements.

16. OTHER INFORMATION

Additional advice: None.

Information contained herein are based on reasonable investigation and research. However, LumiraDx UK or its affiliates do not warrant the accuracy of this information. All materials may present unknown hazards and should be used with caution. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this product by a properly trained person using this product. In no case shall LumiraDx be liable for incidental or consequential damages. Use of LumiraDx Extraction Buffer is subject to referenced and limitations included the product specifications.

LumiraDx UK (company number: 09206123)

END OF SAFETY DATA SHEET