



## MATERIAL SAFETY DATA SHEET

### Nitric Oxide Detection Assay (Colorimetric)

#### SECTION 1. IDENTIFICATION

<b>Product name</b>	Nitric Oxide Detection Assay (Colorimetric)
<b>Catalogue number</b>	ZX-44107-96
<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]

Skin Irritant, Class 2  
Eye Irritant, Class 2

Hydrochloric Acid

Hazard statements

Causes skin irritation.  
Causes serious eye irritation.

Precautionary statements

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

#### SECTION 3. FIRST AID MEASURES

General advice

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

If inhaled

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

**In case of skin contact**

Rinse with copious amounts of water and wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes. If irritation or discomfort develops seek medical attention.

**In case of eye contact**

Rinse eyes with running water, checking for and removing contact lenses. Continue for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

**If swallowed**

If swallowed, wash out mouth with water if person is conscious. Seek medical attention.

#### SECTION 4. INFORMATION ON INGREDIENTS

**Components:**

Nitrate Standard (C086-200UL)  
Nitrite Standard (C087-200UL)  
Assay Buffer (X089-60ML)  
Enzyme Buffer (X091-1ML)  
NADH Concentrate (X090-1.2ML)  
Nitrate Reductase (C088-1EA)  
Color Reagent A (X092-5ML)  
Color Reagent B (X093-5ML)

**Description:**

Color Reagent A, X092-5ML, and Color Reagent B, X093-5ML, contain:

**Chemical Name**

Hydrochloric Acid

**CAS No**

7647-01-0

**Percent**

> 1.0%

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-44107-96

#### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

Suitable: Water spray. Carbon Dioxide, dry chemical powder, or appropriate foam.

**Firefighting**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fires conditions.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

**Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

**Environmental precautions**

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**  
**Materials to Avoid**  
**Incompatibilities**

This material is stable until the expiration date on the kit if stored as directed.  
Hydrogen chloride gas.  
Materials such as cyanides, sulfides, sulfites, and formaldehyde.

**SECTION 10. TOXICOLOGICAL INFORMATION**

**Route of Exposure**

**Skin Contact:** May cause skin irritation.  
**Skin Absorption:** May be harmful if absorbed through the skin.  
**Eye Contact:** May cause eye irritation.  
**Inhalation:** May be irritating to mucous membranes and upper respiratory tract. 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**

No data available.

**SECTION 12. DISPOSAL CONSIDERATIONS**

**Appropriate Method of Disposal of Substance**

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

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**SECTION 13. TRANSPORT INFORMATION**

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

**Proper Shipping Name:** Chemical Kits  
**UN Identification Number:** 1789  
**Class and Description:** 8, Miscellaneous  
**Packing Group:** N/A  
**Hazard Label:** Class 8

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**International Air Transportation (IATA)**

**Proper Shipping Name:** Chemical Kits  
**UN Identification Number:** 1789  
**Class and Description:** 8, Miscellaneous  
**Packing Group:** III Hazard  
**Label Class:** 8

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**SECTION 14. REGULATORY INFORMATION**

**Product related information**

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

**Safety Statements**

Avoid release to the environment.

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**Risk Statements**

Harmful if swallowed.

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**U.S. Regulatory Information**

Sara Listed: No

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**SECTION 15. OTHER INFORMATION**

**Department**

R&D - ZELLX project - ZellBio GmbH

**Last Revision**

09.12.2019

**Disclaimer:**

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

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**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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