



# MATERIAL SAFETY DATA SHEET

## BCA Protein Detection Assay (Colorimetric)

### SECTION 1. IDENTIFICATION

<b>Product name</b>	<b>BCA Protein Detection Assay (Colorimetric)</b>
<b>Catalogue number</b>	<b>ZX-44105-96</b>
<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]

**Emergency Overview**

It is recommended that personnel wear safety goggles, gloves and protective clothing at all times. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical components of this kit and ensure prompt removal from skin, eye, and clothing.

**Sodium Azide**

Harmful if inhaled, absorbed through skin or swallowed. Contact with acids liberates toxic gas. Irritating to eyes, respiratory system and skin.

Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment. May react with lead and copper plumbing to form highly explosive metal azides.

**Sodium Carbonate**

Harmful if inhaled. Contact with decomposition products may cause delayed symptoms. Irritating to eyes, respiratory system and skin.

**Copper Sulfate**

Harmful if ingested. Irritating to eyes, respiratory system and skin. May cause allergic skin reaction once sensitized.

### 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

**In case of skin contact**

Rinse with copious amounts of water and wash thoroughly with soap and water.

**In case of eye contact**

Rinse eyes with running water, checking for and removing contact lenses. Assure adequate flushing by separating the eyelids with fingers and seek medical attention.

**If swallowed**

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

#### SECTION 4. INFORMATION ON INGREDIENTS

**Components:**

BSA Standard (C143-200UL)

BCA Reagent (C144-16ML)

BCA Enhancer (C145-320UL)

Description:	Chemical Name	CAS No	Percent	SARA 313
C143-200UL (Standard)	Sodium Azide	26628-22-8	≤ 0.09%	YES
C144-16ML (Reagent)	Sodium Carbonate	497-19-8	≥ 1.0%	YES
C145-320UL (Enhancer)	Copper Sulfate, Pentahydrate	7758-99-8	≥ 1.0%	YES

Information on other specific chemicals of this kit is being withheld as a trade secret of the manufacturer.

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#### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

Suitable: 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.

#### 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. 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.

**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**  
**Incompatibilities**

This material is stable until the expiration date on the kit if stored as directed.  
Heat, incompatibles

Strong oxidizing agents or acids. Sodium azide may react with lead and copper plumbing.

**SECTION 10. TOXICOLOGICAL INFORMATION**

**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:** May be harmful if swallowed.

**Route of Exposure**

**Symptoms of Exposure**

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

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**SECTION 11. ECOLOGICAL INFORMATION**

No data is available.

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**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

<b>U.S. and Canadian Transportation; DOT</b>	<b>Proper Shipping Name:</b> Chemical Kits <b>UN Identification Number:</b> 3316 <b>Class and Description:</b> 9, Miscellaneous <b>Packing Group:</b> N/A <b>Hazard Label:</b> Class 9
	<b>Proper Shipping Name:</b> Chemical Kits <b>UN Identification Number:</b> 3316 <b>Class and Description:</b> 9, Miscellaneous <b>Packing Group:</b> III Hazard <b>Label Class:</b> 9
<b>International Air Transportation (IATA)</b>	

### SECTION 14. REGULATORY INFORMATION

<b>Product related information</b>	The product is not subject to classification according to the sources of literature known to us. Observe general safety regulations when handling chemicals.
<b>Safety Statements</b>	Avoid release to the environment. Contains human blood. Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Risk Statements</b>	
<b>U.S. Regulatory Information</b>	Sara Listed: Yes, Sodium Azide (CAS# 26628-22-8) and Copper Sulfate (CAS# 7758-99-8) contained in this product are subject to SARA 313 Reporting requirements.

### SECTION 15. OTHER INFORMATION

<b>Department</b>	R&D - ZELLX project - ZellBio GmbH
<b>Last Revision</b>	08.12.2019
<b>Disclaimer:</b>	For Research Use Only. Not for diagnostic, therapeutic, or other uses.
<b>Other Information</b>	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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