

MATERIAL SAFETY DATA SHEET (MSDS)

VitroVivo Biotech LLC VitroView™ LSAB IHC Kit (Rabbit IgG)

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

Product Name: VitroView™ LSAB IHC Kit (Rabbit IgG) (For 100 Tests)

SKU#: VB-6017

Kit Components: RTU Normal Goat Serum (10 mL), RTU Biotinylated Anti-Rabbit Secondary Antibody (10 mL), RTU Streptavidin-HRP (10 mL)

Manufacturer: VitroVivo Biotech LLC, 405 E Gude Drive, Suite 214, Rockville, MD 20850, USA

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2. HAZARDS IDENTIFICATION

GHS Classification: Germ Cell Mutagenicity (Category 2) - due to the presence of Sodium Azide in specific components.

Signal Word: Warning

Hazard Statements:

- H341: Suspected of causing genetic defects.
- H402: Harmful to aquatic life.

Precautionary Statements:

- P201: Obtain special instructions before use.
- P281: Use personal protective equipment as required.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P273: Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This kit contains three liquid components with distinct chemical composition profiles:

Kit Component	Chemical Name	CAS-No	Weight %	GHS Classification
RTU Normal Goat Serum (10 mL)	Sodium Azide	26628-22-8	0.1 - 1%	Acute Tox. 2 (H300); Acute Tox. 1 (H310); Aquatic Chronic 1 (H410)
RTU Biotinylated Anti-Rabbit Secondary Antibody (10 mL)	Sodium Azide	26628-22-8	0.1 - 1%	Acute Tox. 2 (H300); Acute Tox. 1 (H310);

				Aquatic Chronic 1 (H410)
RTU Streptavidin-HRP (10 mL)	Non-hazardous ingredients / Water	N/A	Balance	Not Dangerous / Not Classified

4. FIRST AID MEASURES

- **Eye Contact:** Immediately flush with plenty of water for at least 15 minutes, removing contact lenses if present.
- **Skin Contact:** Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes.
- **Inhalation:** Move exposed individual to fresh air. If breathing is difficult, give oxygen and seek medical attention.
- **Ingestion:** Clean mouth with water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person.
- **Notes to Physician:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammability: Not flammable.

Suitable Extinguishing Media: Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Protective Equipment: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Ensure adequate ventilation. Wear personal protective equipment.
- **Environmental Precautions:** Try to prevent the material from entering drains, sewers, or surface water courses.
- **Clean-up Methods:** Prevent further leakage or spillage if safe to do so. Cover liquid spill with sand, earth, or other non-combustible absorbent material and transfer to properly labeled containers.

7. HANDLING AND STORAGE

- **Handling:** Avoid contact with skin, eyes, and clothing. Wear appropriate laboratory personal protective equipment. Do not breathe vapors or spray mist. Do not eat, drink, or smoke when handling.
- **Storage:** Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of reach of children. Store at recommended kit temperature (typically 2-8°C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines for Sodium Azide (CAS 26628-22-8):

- **ACGIH TLV:** Ceiling: 0.29 mg/m³ NaN₃; Ceiling: 0.11 ppm Hydrazoic acid vapor
- **OSHA PEL:** (vacated) Ceiling: 0.1 ppm HN₃; (vacated) Ceiling: 0.3 mg/m³ NaN₃
- **NIOSH IDLH:** Ceiling: 0.1 ppm HN₃; Ceiling: 0.3 mg/m³ NaN₃

Personal Protective Equipment (PPE):

- **Eye/Face Protection:** Tightly fitting safety goggles or face shield.
- **Skin Protection:** Long-sleeved laboratory clothing and protective gloves (nitrile or latex).
- **Respiratory Protection:** Not required under normal use conditions. If exposure limits are exceeded or irritation occurs, use NIOSH/MSHA-approved respiratory safety gear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid (all components)

Appearance: Clear to light amber liquid

pH: ~7.60 for buffered components

Boiling Point / Flash Point / Melting Point: No data available

Solubility: Soluble in water

10. STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Products:** Sodium azide can react with lead and copper plumbing to form highly explosive metal azides. Avoid acidic conditions.
- **Hazardous Polymerization:** Hazardous polymerization does not occur.
- **Hazardous Decomposition:** None known based on supplied technical data.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data for Sodium Azide (CAS 26628-22-8):

- **LD50 Oral:** 27 mg/kg (Rat)
- **LD50 Dermal:** 50 mg/kg (Rat); 20 mg/kg (Rabbit)
- **Chronic Effects:** H341: Suspected of causing genetic defects based on component hazard disclosures.

12. ECOLOGICAL INFORMATION

Sodium Azide is very toxic to aquatic life with long-lasting effects. Avoid discharge or release into environmental water systems.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal environmental regulations. Sodium azide components must be flushed with large volumes of water if entering sewer systems to prevent metal azide accumulation in copper/lead plumbing.

14. TRANSPORT INFORMATION

DOT: Not dangerous goods | IATA: Not dangerous goods | ADR: Not dangerous goods

15. REGULATORY INFORMATION

- **SARA 311/312:** Acute Health Hazard: Yes | Chronic Health Hazard: No | Fire Hazard: No | Reactive Hazard: No
- **CERCLA/SARA 303:** Sodium Azide (CAS 26628-22-8) is listed with an Extremely Hazardous Substance RQ of 1000 lbs.
- **California Waste Status:** Sodium Azide is listed as an Ignitable/Reactive hazardous waste state status.

16. OTHER INFORMATION

Revision Date: 19-September-2026

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. It is intended solely as guidance for safe handling, use, processing, storage, transportation, and disposal.