

SAFETY DATA SHEET

OSHA HCS 29 CFR 1910.1200 & WHMIS 2015 Compliant

SECTION 1: Identification

- **Product Name:** VitroView™ LSAB IHC Kit (Goat IgG) (100 Tests)
- **SKU / Catalog Number:** VB-6021
- **Manufacturer:** VitroVivo Biotech LLC, 405 E Gude Dr, Suite 214, Rockville, MD 20850, USA
- **Technical Support:** Phone: 301-500-0499 | Email: support@vitrovivo.com
- **Recommended Use:** Laboratory chemical reagent for research use only. Not for human or animal diagnostic or therapeutic applications.

SECTION 2: Hazard(s) Identification

This kit consists of multiple aqueous liquid components. Under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015, the individual components are considered non-hazardous mixtures due to the extremely low concentration of active chemical ingredients. It does not contain hazardous organic chromogens (such as DAB).

- **GHS Classification:** Not a hazardous substance or mixture.
- **Signal Word:** None Required
- **Hazard Pictograms:** None Required
- **Hazard Statements:** None Required
- **Precautionary Statements:** P264: Wash hands thoroughly after handling. P280: Wear protective gloves/clothing and eye/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

SECTION 3: Composition / Information on Ingredients

The product is a multi-component kit. Active hazardous substances are present below regulatory disclosure thresholds (de minimis concentrations):

Component Name	Volume	Major Ingredients / Preservatives	CAS Number	Weight %
RTU Normal Donkey Serum	10 mL	Donkey Serum proteins; Sodium Azide (<0.1%)	26628-22-8	< 0.1%
RTU Biotinylated Anti-Goat Secondary Antibody	10 mL	Immunoglobulin fraction; Sodium Azide (<0.1%)	26628-22-8	< 0.1%
RTU Streptavidin-HRP	10 mL	Streptavidin-HRP Conjugate; ProClin™ 300 / Mitigating salts	Mixture	< 0.05%

SECTION 4: First-Aid Measures

- **Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. Seek medical advice if irritation develops.
- **Skin Contact:** Wash off thoroughly with soap and plenty of water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye Contact:** Flush eyes out immediately with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses if present and easy to do. Get medical attention if irritation occurs.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a physician.

SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide standard to surrounding fire conditions.
- **Specific Hazards:** Thermal decomposition can lead to release of irritating or trace toxic fumes (carbon oxides, nitrogen oxides, sulfur oxides).
- **Protective Equipment:** Wear self-contained breathing apparatus (SCBA) and full protective firefighting gear if required.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment (gloves, safety glasses, lab coat). Avoid breathing vapors, mist, or gas. Ensure adequate room ventilation.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid broad discharge into the environmental sewer systems.
- **Clean-up Methods:** Soak up with an inert absorbent material (e.g., paper towels, sand, vermiculite). Clean surface thoroughly and place in closed waste containers for proper disposal.

SECTION 7: Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Wear appropriate standard laboratory PPE. Wash hands thoroughly with soap after handling components.
- **Storage:** Keep container tightly closed in a dry and well-ventilated space. Recommended storage temperature: 2–8°C. Do not freeze. Keep away from incompatible materials.

SECTION 8: Exposure Controls / Personal Protection

- **Control Parameters:** Contains no substances with established occupational exposure limit values at their current highly diluted concentrations. (Sodium Azide ceiling limit is 0.29 mg/m³, but is present below reportable thresholds).
- **Engineering Controls:** Handle inside standard laboratory configurations using general industrial hygiene and safety practices. Eyewash stations should be accessible.
- **Personal Protective Equipment (PPE):**
 - **Eye/Face:** Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU) standards.

- **Skin/Body:** Handle with protective nitrile or latex laboratory gloves. Wear a standard laboratory coat.
- **Respiratory:** Respiratory protection is not required under standard operational volumes. Use in well-ventilated areas.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Clear, liquid solutions (colorless to light amber)
- **Odor:** Odorless
- **pH:** Aqueous solutions, buffered near physiological pH (~7.2 - 7.6)
- **Boiling / Melting Point:** Approx. 100°C / Approx. 0°C
- **Flash Point / Flammability:** Not applicable (non-combustible aqueous base)
- **Solubility:** Completely miscible in water

SECTION 10: Stability and Reactivity

- **Reactivity:** Stable under normal operational and recommended storage conditions.
- **Chemical Stability:** Stable under recommended storage temperatures (2–8°C).
- **Possibility of Hazardous Reactions:** Sodium Azide can react with heavy metals (lead, copper) over prolonged contact to form explosive azides, or with acids to release toxic hydrazoic acid. However, concentrations in this kit (<0.1%) are too low to present this threat.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, heavy metals.
- **Hazardous Decomposition Products:** No dangerous decomposition materials known under standard conditions.

SECTION 11: Toxicological Information

- **Acute Toxicity:** No toxicological mixture data available for the kit. Components are highly diluted.
- **Skin/Eye Corrosion:** May cause mild, temporary skin or eye irritation upon direct exposure.
- **Sensitization / Mutagenicity / Carcinogenicity:** No components present at $\geq 0.1\%$ are identified as a known or suspected carcinogen by IARC, NTP, or OSHA. Does not contain mutagenic chromogens like DAB.

SECTION 12: Ecological Information

- **Ecotoxicity:** No environmental ecotoxicity data available for these specific dilutions. Pure sodium azide is toxic to aquatic life, but its concentration here is below regulatory ecological hazard limits.
- **Persistence & Degradability:** Aqueous components are readily degradable.

SECTION 13: Disposal Considerations

- **Waste Treatment:** Dispose of in accordance with prevailing local, regional, and national environmental control regulations. Avoid direct discarding of concentrated laboratory mixtures into domestic waste streams.

SECTION 14: Transport Information

- **DOT (US) / IMDG / IATA:** Not regulated as dangerous goods for transport. Non-hazardous liquid mixtures.

SECTION 15: Regulatory Information

- **TSCA:** All chemical ingredients are listed or exempted from inventory lists.
- **SARA 302/313:** No chemicals in this kit exceed the de minimis reporting thresholds established by SARA Title III, Sections 302 or 313.
- **California Prop. 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

SECTION 16: Other Information

- **Preparation Date:** September 19, 2026
- **Revision Number:** 1.0 (Initial Compilation)
- **Disclaimer:** The information provided in this Safety Data Sheet is accurate to the best of our current knowledge, information, and belief at the time of publication. The information given is designated only as a guide for safe handling, use, processing, storage, transit, disposal, and release. VitroVivo Biotech LLC shall not be held liable for any damage resulting from handling or from contact with the product.