

SAFETY DATA SHEET

VitroView™ LSAB IHC/DAB Kit (Mouse IgG) — 100 Tests

SECTION 1: IDENTIFICATION

Product Name: VitroView™ LSAB IHC/DAB Kit (Mouse IgG) [100 Tests]
Catalog Number: VB-6015D (Optimized Kit Version)
Manufacturer/Supplier: VitroVivo Biotech, LLC
Recommended Use: For research use only. Not for human diagnostic or therapeutic use.

Kit Components Covered Under This SDS:

Component Name	Volume	Primary Hazard Classification
RTU Normal Goat Serum	10 mL	Non-hazardous / Contains <0.1% Sodium Azide
RTU Biotinylated Anti-Mouse Secondary Antibody	10 mL	Non-hazardous / Contains <0.1% Sodium Azide
RTU Streptavidin-HRP	10 mL	Non-hazardous
DAB Stock Solution (40×)	0.75 mL	Carc. 1B (H350), Muta. 2 (H341), Acute Tox. 4 (H302)
DAB Buffer	30 mL	Non-hazardous
RTU Hematoxylin Solution	10 mL	Eye Irrit. 2 (H319) [Concentration Proprietary]

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification of the Mixture (Kit Components):

- **DAB Stock Solution (40×):**
 - Carcinogenicity (Category 1B) - H350: May cause cancer.
 - Germ Cell Mutagenicity (Category 2) - H341: Suspected of causing genetic defects.
 - Acute Toxicity, Oral (Category 4) - H302: Harmful if swallowed.
- **RTU Hematoxylin Solution:**
 - Serious Eye Damage/Eye Irritation (Category 2A) - H319: Causes serious eye irritation.
- **Other Components:**
 - Not classified as hazardous according to OSHA GHS criteria; contain trace preservatives (<0.1% sodium azide).

GHS Label Elements (For Kit Overall based on DAB Component):

Signal Word: DANGER
Hazard Statements:
H302: Harmful if swallowed.
H341: Suspected of causing genetic defects.

H350: May cause cancer.

H319: Causes serious eye irritation.

Precautionary Statements:

P201: Obtain special instructions before use.

P280: Wear protective gloves/clothing/eye protection/face protection.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

DAB Stock Solution (40×):

- 3,3'-Diaminobenzidine Tetrahydrate | CAS#: 868272-85-9 | Concentration: 1 - 5%

RTU Hematoxylin Solution:

- Hematoxylin | CAS#: 517-28-2 | Concentration: Confidential / Proprietary
- Aluminum Ammonium Sulfate | CAS#: 7784-26-1 | Concentration: 1 - 5%

Other Components:

- Contain aqueous buffers, proteins, and Sodium Azide (CAS#: 26628-22-8) at < 0.1% threshold.

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen and seek immediate medical attention.

Skin Contact: Wash immediately with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.

Eye Contact: Rinse cautiously with water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present. Seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Do NOT induce vomiting unless directed by medical personnel. Seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Specific Hazards: Decomposition products under fire conditions may include carbon oxides, nitrogen oxides, sulfur oxides, and hydrogen chloride gas.

Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective gear for firefighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (PPE). Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Avoid letting product enter drains, surface water, or ground water.

Clean-up Methods: Soak up with inert absorbent material (e.g., sand, silica gel, acid binder). Neutralize waste properly and place in sealed containers for hazardous waste disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid exposure—obtain special instructions before use. Avoid contact with skin, eyes, and clothing. Wear appropriate PPE. Do not eat, drink, or smoke when handling.

Storage: Store the kit at 2-8°C in original containers. Keep tightly closed. Light sensitive components (DAB) must be protected from direct light exposure.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values at current operational concentrations. (Sodium Azide ceiling: 0.29 mg/m³, but present here below reportable limits).

Engineering Controls: Use mechanical exhaust ventilation or a chemical fume hood when handling DAB Stock Solution.

Personal Protective Equipment (PPE):

- **Eye/Face:** Tightly fitting safety goggles or face shield conforming to NIOSH (US) or EN 166 (EU).
- **Skin/Body:** Nitrile or latex chemical-resistant gloves. Lab coat or protective apron.
- **Respiratory:** Use an approved respirator if exposure limits are exceeded or irritation/vapors occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid components (DAB Stock is amber/brown; Hematoxylin is purple; buffers are clear/colorless).

Odor: Odorless

pH: Varies by component (Buffers ~7.4; Hematoxylin ~2.5 - 3.5 acidic; DAB Stock acidic).

Solubility: Fully miscible in water.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable under recommended storage temperatures (2-8°C).

Incompatible Materials: Strong oxidizing agents, strong acids, metals, and sodium azide can react with lead/copper plumbing to form explosive metal azides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: DAB Component is harmful if swallowed. Hematoxylin causes eye irritation.

Carcinogenicity: 3,3'-Diaminobenzidine (DAB) is classified as an IARC Group 2B / OSHA Carcinogen 1B (May cause cancer).

Mutagenicity: DAB is a suspected mutagen (Category 2).

SECTIONS 12 - 15: ECOLOGICAL, DISPOSAL, & REGULATORY INFORMATION

Ecological: Avoid release into the environment. Trace sodium azide is toxic to aquatic life.

Disposal: Dispose of contents/containers in accordance with local, state, and federal hazardous waste regulations.

Transport (DOT/IATA): Not regulated as a dangerous good in these small volumes (Excepted Quantities apply).

SARA 302/313: Sodium Azide (trace) is subject to reporting only above threshold limits; DAB requires careful compliance tracing.

SECTION 16: OTHER INFORMATION

Document Revision: Version 1.0

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Disclaimer: The information provided above is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. VitroVivo Biotech shall not be held liable for any damage resulting from handling or contact with the product.