

Material Safety Data Sheet (MSDS) Revision Date: 1-8-2024

Kit Name: VitroView<sup>TM</sup> Biotin Goat Anti-Rabbit IgG (H+L) Antibody Catalog#: VB-1201

Components:	
VB-1201	VitroView <sup>TM</sup> Biotin Goat Anti-Rabbit IgG (H+L) Antibody

#### VB-1201 Biotin Goat Anti-Rabbit IgG (H+L) Antibody MSDS

	1. Identification of the Substance/Mixture and Company
Product Name Catalog# Product Description	Biotin Goat Anti-Rabbit IgG (H+L) Antibody VB-1201 Component
Manufacturer/Supplier	VitroVivo Biotech, LLC. 405 E Gude Dr., Suite 214, Rockville, MD 20850
Tel/fax Number	Phone: 301-500-0499; Toll free: 1-800-260-9817 Fax: 844-248-6208

## 2. Hazards Identification

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

	3. Composition/information on ingredients
Mixtures Description: Mixture of the su	ibstances listed below.
Composition:	
Name	Component
Goat anti Rabbit	No hazardous ingredients
	4. First Aid Measures

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed. **FIRST AID:** CALL A PHYSICIAN.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water.

**EYES**: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. **INHALATION**: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### 5. Firefighting Measures

Fire Extinguisher Type: Fire / Explosion Hazards: Fire Fighting Procedure: Carbon Dioxide, dry chemical powder or appropriate foam vapors heavier than air and wil stay at the floor leve Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### 6. Accidental Release Measures

Evacuate area. Wear self-contained breathing apparatus and protective clothing. Eliminate all sources of ignition.

### 7. Handling and Storage

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

# 8. Exposure Controls/Personal Protection

Respiratory Protection: Ventilation: Protective Gloves: Eye Protection: Other Protective Equipment: NIOSH/MSHA-approved respirator Mechanical Solvent resistant gloves as neoprene or nitrile Splash Goggles Wear appropriate clothing to prevent skin exposure

# 9. Physical and Chemical Properties

VB-1201 Biotin Goat Anti-Rabbit IgG (H+L) Antibody

AppearanceForm:FluidColor:ColorlessOdor:characteristic organic odorOdor thresholdNot determinedpH-valueNot determinedpH-valueNot determinedChange in conditionUndeterminedMelting point/Melting range:UndeterminedBoiling point/Boiling range:UndeterminedFlash point:Not applicable.Flash point:Not applicable.Ignition temperature:Not determined.Decomposition temperature:Not determined.Danger of explosion:Not determined.Explosion limits:LowerLowerNot determined.UpperNot determined.Vapor pressure at 20°C (68 °F)Not determined.Vapour density:Not determined.Vapour density:Not determined.Solubility in / Miscibility with Water:Infinite.Segregation coefficient (n-octonol/water)Not determinedDynamic:Not determined		
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Dynamic: Not determined	Solubility in / Miscibility with Water:	Infinite.
	Segregation coefficient (n-octonol/water)	Not determined
	Dynamic:	Not determined
Kinematic: Not determined	Kinematic:	Not determined
<b>Other information</b> No further relevant information available.	Other information	No further relevant information available.

10 Stability and Reactivity		
Stability:	Stable	
Conditions to Avoid	Avoid contact with heat, sparks, flames, or	
	other sources of ignition.	
Materials to Avoid:	Oxidizing materials	
Hazardous Decomposition Products:	TOXIC gases produced at decompostion	
Hazardous polymerization:	Will Not Occur	
Conditions to Avoid:	None known	

### 11. Toxicological Information

Oral, Rat: (Chloroform) 695 mg/kg, behavioral and respiratory effects noted; LD50, Dermal, Rabbit: >20,000 mg/kg, details of toxic effects not reported other than lethal dose value . Investigated as a tumorigen (Chloroform). LD50, Oral, Rat (Acetic Acid): 3310 mg/kg; LD50, Dermal, Rabbit (Acetic Acid): 1.06 L/kg, details of toxic effects not reported other than lethal dose value.

## 12. Ecological Information

Ethanol has moderate chronic toxicity to aquatic life. Chloroform has moderate acute and chronic toxicity to aquatic life. Chloroform has caused damage to various plants, including brittle roots and chromosomal damage. Insufficient data are available to evaluate the short term and long term effects of Chloroform to plants, birds, or land animals. Acetic Acid has high biochemical oxygen demand, and a potential to cause oxygen depletion in aqueous systems, low potential to affect aquatic organisms and a low potential to affect the growth of some plant seedlings . Chemical Fate Information: This material is not expected to significantly bioaccumulate. Ethanol is slightly persistent in water, with a half-life of between 2 to 20 days. Chloroform is non-persistent in the aquatic environment. Acetic Acid has low potential to bioconcentrate.

### 13. Disposal Considerations

Absorb with suitable inert material (vermiculite, dry sand, earth) and place in a chemical waste container for proper disposal in an approved waste disposal facility for incineration in a chemical incinerator equipped with scrubber and afterburner. Do not flush to the sewer. Ventilate area of spill. Have extinguishing agent available in case of fire. Eliminate all sources of ignition. Use non-sparking tools and equipment. Always dispose of in accordance with local, state and federal regulations.

14. Transport Information

Part Numbers: R1851000-1C, R1851000-4C, R1851000-500C D.O.T. Hazard Class: 3 (6.1) U.N. / N.A. Number: UN1992 Packing Group: III D.O.T. Shipping Name: Flammable Liquid, Toxic, n.o.s., (Ethanol and Chloroform) D.O.T. Label: 3, III

15. Regulatory Information

**OSHA Status:** These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Catagories:Acute, Chronic, Fire: Yes; Pressure, Reactivity: No Section 313 Toxic Chemicals:Not Applicable.

**California:** Contains an ingredient (Chloroform (Trichloromethane)) known to the state of California to cause cancer. Contains an ingredient (Chloroform (Trichloromethane)) known to the state of California to cause cancer. **Pennsylvania:** Chloroform (Trichloromethane) is listed as both Special and Environmental Hazards on the state's Hazardous Substances List. Ethyl Alcohol (Ethanol) is listed as a Basic Hazard on the state's Hazardous Substances List. Acetic Acid is listed as an Environmental Hazard on the state 's Hazardous Substances List. Chloroform (Trichloromethane) is listed as both Special and Environmental Hazards on the state's Hazardous Substances List.

CERCLA Reportable Quantity: Chloroform (Trichloromethane) - 10 pounds. Acetic Acid - 5,000 pounds. Acetic

D022,U044,U154,D002,U154,D002,D022,U044 WHMIS: B-2: Flammable and Combustible Material. Flammable Liquid. D-2A: Poisonous and Infectious Material.

**Materials causing other toxic effects** - Very Toxic Material. D-1B Poisonous and Infectious Material. Materials causing immediate and serious toxic effects - Toxic Material.

# 16. Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Abbreviations and acronyms: **ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) **IMDG:** International Maritime Code for Dangerous Goods **DOT:** US Department of Transportation **IATA:** International Air Transport Association **ACGIH:** American Conference of Governmental Industrial Hygienists **NFPA:** National Fire Protection Association (USA) **HMIS:** Hazardous Materials Identification System (USA) **LC50:** Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Copyright © 2024 VitroVivo Biotech, LLC. All rights reserved. No part of these pages may be used for any purpose other than personal use. Therefore, reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, for reasons other than personal use, is strictly prohibited without prior written permission.