
SAFETY DATA SHEET

HELENA LABORATORIES
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DATE PREPARED: 2/1/2024

REVISION: 4

1. IDENTIFICATION**Product Number:** 3041**Product identifier used on the label:** Titan Gel Serum Protein Kit**Other means of identification:**

Component Name	Component Number
Titan Gel Serum Protein Gel Plate	500233
Titan Gel Serum Protein Buffer	500235
Amido Black Stain	3048

Recommended use of the chemical and restrictions in use: For In-Vitro Diagnostic use.**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

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1530 Lindbergh Dr.
Beaumont, TX 77707
Tel: (409) 842-3714
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Emergency phone number:(409) 842-3714

2. HAZARD IDENTIFICATION**Classification of the chemical:**

Component Name	GHS Classification	Hazard Statement
Titan Gel Serum Protein Gel	Not Classified	Harmful if swallowed
Titan Gel Serum Protein Buffer	Acute toxicity, oral (Category 3)	Harmful if swallowed

NOTE: All other components present no significant physical or chemical hazard.

Label elements:

Signal word: Warning

Precautionary statements:

Skin: May cause skin irritation.

Eye: May cause eye irritation.

Inhalation: May be harmful if inhale.

Ingestion: Harmful if swallowed.

Wear protective gloves, protective clothing, eye and face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Titan Gel Serum Protein Gel	Barbital	57-44-3	1.3%
	Thimerosal	54-64-8	< 0.1%
Titan Gel Serum Protein Buffer	Barbital	57-44-3	82 %
	Sodium Azide	26628-22-8	5%
	Thimerosal	54-64-8	1%

NOTE: All other components present no significant physical or chemical hazard.

4. FIRST AID MEASURES**Description of first aid measures:****Titan Gel Serum Protein Gel**

Inhalation: Not applicable.

- Skin contact:** Wash off with soap and plenty of water. If skin irritation occurs, get medical attention. Take off contaminated clothing.
- Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.
- Ingestion:** If swallowed rinse mouth with water. Consult a physician.

Titan Gel Serum Protein Buffer

- Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact:** Wash off with soap and plenty of water. If skin irritation occurs, get medical attention. Take off contaminated clothing.
- Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.
- Ingestion:** Call a physician immediately.

Most important symptoms and effect, acute and delayed: Symptoms of acute toxicity: increasing restlessness, low blood pressure, respiratory slow down, person does not react to pain.

Prolonged or repeated exposure may result in psychic or physical dependence.

5. FIREFIGHTING MEASURES

- Extinguishing media:** Water spray, dry chemical, carbon dioxide, or alcohol resistant foam.
- Special hazards arising from the substance or mixture:** Carbon oxides, nitrogen oxide, sulfur oxides, sodium oxides.
- Special protective equipment and precautions for firefighters:** Wear proper protective equipment and self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment, and emergency procedures:** Wear personal protective equipment. Evacuate personnel to safe areas. Soak up with inert absorbent material and transfer to container for proper disposal.
- Methods and materials for containment and cleaning up:** Do not allow material to enter drains/surface water/ground water. Ventilate the area.
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7. HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment; avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed and store in a cool dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (ACGIH TLV & OSHA PEL):

Chemical Name	ACGIH TLV	OSHA PEL
Barbital	None listed	None listed
Sodium Azide	0.3 mg/m ³	None listed
Thimerosal	0.1 mg/m ³	0.01 mg/m ³

NOTE: All other components present no significant physical or chemical hazard.

Exposure controls:

Respiratory protection: Use NOISH approved respirators.

Skin protection: Wear appropriate protective gloves and suitable protective clothing.

Eye protection: Wear appropriate safety glasses or goggles.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Titan Gel Serum Protein Gel

Appearance: Solid

Odor: None

Odor threshold: No data available

pH: No data available

Melting point/Freezing point: No data available

Initial boiling point and range: Not applicable

Flash point: Not applicable

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: Not applicable

Vapor pressure: No data available

Relative density: No data available

Solubility in water: Soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Titan Gel Serum Protein Buffer

Appearance: White powder

Odor: None

Odor threshold: No data available

pH: 8.4-8.8 (when dissolved following instructions on label)

Melting point/Freezing point: No data available

Initial boiling point and range: Not applicable

Flash point: Not applicable

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: Not applicable

Vapor pressure: No data available

Relative density: No data available

Solubility in water: Soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical stability: Stable under normal condition

Possibility of hazard reaction: Hazardous polymerization does not occur

Conditions to avoid: Light and elevated temperature. Avoid contact with incompatible materials.

Incompatible materials: Oxidizing agents, strong acids

Hazard decomposition products: Hazard decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

The calculated ATE values:

Titan Gel Serum Protein Gel LD50 Oral = 50000 mg/kg

Titan Gel Serum Protein Buffer LD50 Oral = 287 mg/kg

See the following table for individual ingredient acute toxicity data

Chemical Name	LD 50 (oral, rat)
Barbital	600 mg/kg
Sodium Azide	27 mg/kg
Thimerosal	75 mg/kg

Carcinogenicity: Not listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May cause skin irritation

Eye: May cause eye irritation

Potential Chronic Health Effects: The chronic exposure may result in psychic or physical dependence.

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

12. ECOLOGICAL INFORMATION

Eco-toxicity: No data available

Persistence and degradability: No data available

Bio-accumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

13. DISPOSAL CONSIDERATION

Observe all federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (US): Not applicable

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

15. REGULATORY INFORMATION**US State Right to Know Laws:**

California Proposition 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm: Thimerosal

Other US State "Right to Know" List: The following chemicals are listed by individual States:

Thimerosal (PA, NJ)

Sodium Azide (MA, PA, NJ)

Naphthol Blue Black (PA, NJ)

16. OTHER INFORMATION

SDS Creation date: 1/14/2014

Revision #: 4

Disclaimer

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