
SAFETY DATA SHEET

HELENA LABORATORIES
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DATE PREPARED: 2/1/2024

REVISION: 4

1. IDENTIFICATION**Product Number:** 3040**Product identifier used on the label:** Titan Gel High Resolution Protein Kit**Other means of identification:**

Component Name	Component Number
Titan Gel High Resolution Protein Gel Plate	500237
Titan Gel High Resolution Protein Buffer	500239
High Resolution Protein Stain	500238

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 High Resolution Protein Gel	Not Classified	Harmful if swallowed
Titan Gel High Resolution 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 High Resolution Protein Gel	Barbital	57-44-3	1.1%
	Thimerosal	54-64-8	< 0.1%
Titan Gel High Resolution Protein Buffer	Barbital	57-44-3	82 %
	Sodium Azide	26628-22-8	6%

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

4. FIRST AID MEASURES**Description of first aid measures:****Titan Gel High Resolution 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 High Resolution 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.

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

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 High Resolution 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 High Resolution 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 High Resolution Protein Gel LD50 Oral = 50000 mg/kg

Titan Gel High Resolution Protein Buffer LD50 Oral = 279 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

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.