

## **Section 1 - Product and Company Information**

**Product Name:** **Protein L/Agarose**  
gel-protl-2, gel-protl-10  
InvivoGen, 3950 Sorrento Valley Blvd, Suite 100  
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**Company identification:**  
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## **Section 2 - Composition/Information on Ingredient**

Protein L/Agarose is composed of a mixture of ingredients, disclosed are the main ingredients.

<b>Ingredient</b>	<b>CAS No.</b>	<b>EC No.</b>	<b>Classification</b>
Protein L	N/A	N/A	
Agarose	39346-81-1	N/A	
Ethanol	64-17-5	200-578-6	F, R11

## **Section 3 – Hazards Identification**

**Warning:** The usual precautions taken when handling chemicals or biologicals should be observed.

### **Emergency Overview**

**OSHA Hazards:** Flammable liquid. Irritant. Target organ effect. Target organs: Nerves, liver, heart.

**HMIS Classification:** Health Hazard **2**, Chronic Health Hazard **\***, Flammability Hazard **3**, Reactivity Hazard **0**

**NFPA Rating:** Health Hazard **2**, Fire **3**, Reactivity Hazard **0**

### **Potential Health Effects**

- Eye contact: Causes eye irritation.
- Skin contact: Causes skin irritation.
- Skin absorption: May be harmful if absorbed through the skin.
- Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
- Ingestion: May be harmful if swallowed.

## **Section 4 – First Aid Measures**

**General advice:** Consult a physician. Show this material safety data sheet to the doctor in attendance.

**After skin contact:** Immediately wash skin with soap and plenty of water. Consult a physician.

**After swallowing:** Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

**After inhalation:** Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

## **Section 5 – Fire Fighting Measures**

**Extinguishing Media:** Appropriate foam, carbon dioxide, or dry chemical powder.

**Special Firefighting Procedures:** N/A

**Flammability:** N/A

**Unusual Fire and Explosions Hazard (s):** N/A

**Flash point:** 14.0°C (57.2°F)-closed cup

**Auto-ignition Temp:** 363°C (685°F)

## **Section 6 – Accidental Release Measures**

### **Personal precautions:**

Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

### **Method for Cleaning Up:**

Absorb on sand or vermiculite and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

## **Section 7– Handling and Storage**

**Handling:** Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**User Exposure:** Avoid Inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

**Storage:** Keep tightly closed. Store at 4°C. DO NOT FREEZE.

## **Section 8 – Exposure Controls / PPE**

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas.

### **Personal Protective Equipment**

**Hand:** Protective gloves to prevent skin contact. **Eye:** Chemical safety goggles

**General Hygiene Measures:** Wash hands thoroughly after handling.

## **Section 9 – Physical / Chemical Properties**

**Physical State:** Liquid, gel slurry

## **Section 10 – Stability and Reactivity**

**Stability:** Stable under recommended storage conditions

**Materials to avoid:** Strong oxidizing agents, alkali metals, ammonia, peroxides

**Hazardous Decomposition Products:** None known.

## **Section 11 – Toxicological Information**

### **Acute toxicity:**

LD50 Oral: N/A

LD50 Intraperitoneal: N/A

LD50 Intravenous: N/A

**Primary irritant effect:** N/A

**Sensitization:** N/A

**Target Organ:** Nerves, liver, heart

**Additional toxicological information:** N/A

## Section 12 – Ecological Information

**Ecotoxicity:** Data not yet available.

**Mobility:** Data not yet available.

**Biodegradation:** Data not yet available.

**Bioaccumulation:** Data not yet available.

## Section 13 – Disposal Considerations

### **Product:**

Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

### **Contaminated Packaging:**

Dispose of as unused product.

## Section 14 – Transport Information

### **DOT (US)**

Non-hazardous for transport.

### **IATA**

Non-hazardous for transport.

### **IMDG**

Non-hazardous for transport.

## Section 15 – Regulatory Information

**OSHA HAZARDS (US)** Flammable liquid. Irritant. Target organ effect. Target organs: Nerves, liver, heart.

**DSL Status:** The following component is on the Canadian NDSL list.

Agarose CAS no.: 39346-81-1

The following component is on the Canadian DSL list.

Ethanol CAS no.: 64-17-5

**SARA 302 Component:** None of the ingredients are listed.

**SARA 313 Component:** None of the ingredients are listed.

**SARA 311/312 Hazards:** Ethanol: Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

### U.S. State Regulations

Chemical Name	Massachusetts RTK	New Jersey RTK	Pennsylvania RTK
Agarose	-	X	X
Ethanol	X	X	X

**California Proposition 65** This product does not contain chemicals listed under Proposition 65.

### **Labeling and risk phrase according to EU Directives:**

**Hazard symbols:** F Highly flammable

**R11:** Highly flammable.

**S7:** Keep container tightly closed.

**S16:** Keep away from sources of ignition - No smoking.

## Section 16 – Other Information

**Disclaimer:** All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

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