



# SAFETY DATA SHEET

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: LB Broth Solution, Miller Modification (1x)  
 PRODUCT NUMBER: L301  
 COMPANY INFO: *PhytoTechnology Laboratories®*  
 PO Box 12205, Shawnee, KS 66282-2205  
 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442  
 www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only  
 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories®* are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent	Hazardous
Trypone	N/A	1 %	No exposure limits established by OSHA or ACGIH
Sodium Chloride	7647-14-5	1 %	No exposure limits established by OSHA or ACGIH
Yeast Extract	8013-01-2	0.5 %	No exposure limits established by OSHA or ACGIH
Water	7732-18-5	~97 %	No exposure limits established by OSHA or ACGIH

## 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. <b>Get medical attention.</b>
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. <b>Get medical attention.</b>
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>

Skin Contact                    Irritating. May cause reddening, itching or inflammation.                    Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation persists.**

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:                    Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters:                    In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products:                    May emit toxic fumes under fire conditions.

Toxic Gases Produced:                    Carbon dioxide and carbon monoxide.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:                    Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup:                    Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

## 7. HANDLING AND STORAGE

Precaution for Safe Handling:                    Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage:                    Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities:                    Strong oxidizing agent

Recommended Storage Temperature:                    2 to 6 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):                    No data available

Threshold Limit Values (TLVs):                    No data available

Engineering Controls:                    Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection:                    Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection:                    Protective gloves

Body Protection:                    Lab coat

Respiratory Protection:                    Respiratory protection is not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow, Clear Liquid	
pH:	No data available	
Solubility:	Miscible with Water	
Melting Point:	No data available	
Vapor Density:	No data available	
Vapor Pressure:	No data available	
Odor:	No data available	
Odor Threshold:	No data available	
Viscosity:	No data available	
Relative Density:	No data available	
Evaporation Rate:	No data available	
Initial Boiling Point and Boiling Range:	No data available	
Flammability (solid, gas):	No data available	
Partition coefficient: n-octanol/water):	No data available	
Auto-ignition Temperature:	No data available	
Decomposition Temperature:	No data available	
Flash Point (Closed Cup):	No data available	
Flammable Limits:	Upper (%) – No data available	Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	Will not occur
Conditions to Avoid:	Moisture
Incompatibles Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

Toxicity:	LD <sub>50</sub> (Oral-Rat)(mg/Kg):	No data available
	LD <sub>50</sub> (Skin-Rabbit)(mg/Kg):	No data available
	LD <sub>50</sub> (Oral-Mouse)(mg/Kg):	No data available
Carcinogenicity:	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
Reproductive Toxicity:	No data available	
Symptoms Associated with Overexposure:	No data available	
Specific Target Organ Toxicity:	Single Exposure:	No data available
	Repeated Exposure:	No data available
Target Organs:	None identified	

Medical Conditions            None identified  
Aggravated By Exposure:  
Routes of Entry:            No data available  
NIOSH/RTECS NO:            Not listed

*The toxicological properties of this product have not been thoroughly investigated*

**12. ECOLOGICAL INFORMATION**

Ecotoxicity:                    No data available  
Persistence and Degradability:    No data available  
Bioaccumulative Potential:        No data available  
Mobility in Soil:                No data available  
Other Adverse Effects:            No data available

**13. DISPOSAL CONSIDERATION**

Disposal Procedure:            Dispose in accordance with all applicable federal, state, and local environmental regulations.  
EPA Hazardous Waste Number:    No data available

**14. TRANSPORT INFORMATION**

Domestic (D.O.T.):    Proper Shipping Name:    CHEMICALS, N.O.S. (NON-REGULATED)  
                                  Hazard Class:            N/A  
                                  UN/NA:                    N/A  
                                  Labels:                    N/A

International:

IMDG:                    Proper Shipping Name:    CHEMICALS, N.O.S. (NON-REGULATED)  
                                  Hazard Class:            N/A  
                                  UN/NA:                    N/A  
                                  Labels:                    N/A

IATA:                    Proper Shipping Name:    CHEMICALS, N.O.S. (NON-REGULATED)  
                                  Hazard Class:            N/A  
                                  UN/NA:                    N/A  
                                  Labels:                    N/A

**15. REGULATORY INFORMATION**

TSCA:                    No

SARA TITLE III:

Section 302 (EHS) Ingredients:    No  
Section 313 Ingredients:            No  
Section 304 (EHS/CERCLA) Ingredients:    No  
Section 311/312 Hazard:            No SARA Hazards

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	0		0	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	0	0	0	

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