

Issuing Date 5/21/2012

Revision Number 0

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	<b>BioPaddle with Nutrient-TTC Agar and Eosin-Methylene Blue Agar</b>
<b>Product Code(s)</b>	5541
<b>Synonyms</b>	none / ninguno / aucun
<b>Recommended Use</b>	Culture medium.
<b>Company</b>	LaMotte Company, Inc. 802 Washington Avenue P.O. Box 329 Chestertown, MD 21620 USA
<b>Manufactured by:</b>	Precision Labs Inc. Cottonwood, AZ 86326
<b>Emergency Telephone Number</b>	24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

**2. HAZARDS IDENTIFICATION****Emergency Overview**

May cause skin and eye irritation

May be harmful if swallowed

**Appearance** Side One, Buff to Gold,  
Side Two, Pink to Brown**Physical State** BioPaddle - a paddle with  
two types of agar within a vial**Odor** Characteristic

<b>OSHA Regulatory Status</b>	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Potential Health Effects</b>	
<b>Principle Routes of Exposure</b>	Ingestion
<b>Acute Toxicity</b>	
<b>Eyes</b>	No adverse effects expected from eye contact, but may cause irritation and redness.
<b>Skin</b>	Not expected to be a health hazard from skin contact. May cause slight irritation.
<b>Inhalation</b>	Not an expected route of exposure. May cause irritation.
<b>Ingestion</b>	May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.
<b>Chronic Effects</b>	
<b>Aggravated Medical Conditions</b>	None known.
<b>Environmental Hazard</b>	No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS-No	Weight %
Sucrose	57-50-1	<1
Yeast Extract	-	<1
Beef Extract, bacteriological	-	<1
Peptones, casein	91079-40-2	1
Lactose, monohydrate	64044-51-5	3
Gelatin	9000-70-8	4
Agar	9002-18-0	4
Water	7732-18-5	to 100%

**4. FIRST AID MEASURES**

<b>General Advice</b>	Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists or develops, contact a physician.
<b>Skin Contact</b>	Wash off with soap and plenty of water removing all contaminated clothes and shoes. If irritation develops or persists, consult physician.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist or develop contact physician. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	Not a fire hazard.			
<b>Flash Point</b>	Not applicable			
<b>Suitable Extinguishing Media</b>	Water spray, dry chemical, carbon dioxide (CO <sub>2</sub> ), or foam.			
<b>Explosion Data</b>				
<b>NFPA</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> N/A
<b>HMIS</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 0	<b>Stability</b> 0	

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Refer to Section 8.
<b>Methods for Containment</b>	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
<b>Methods for Cleaning Up</b>	Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

**7. HANDLING AND STORAGE**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

**Storage** Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture. Keep out of the reach of children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sucrose 57-50-1	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Yeast Extract	None Known	None Known	None Known
Beef Extract, bacteriological	None Known	None Known	None Known
Peptones, casein 91079-40-2	None Known	None Known	None Known
Lactose, monohydrate 64044-51-5	None Known	None Known	None Known
Gelatin 9000-70-8	None Known	None Known	None Known
Agar 9002-18-0	None Known	None Known	None Known
Water 7732-18-5	None Known	None Known	None Known

**Engineering Measures** Showers. Eyewash stations.

**Personal Protective Equipment**

- Eye/Face Protection** Safety glasses with side-shields.
- Skin and Body Protection** Gloves & Lab Coat.
- Respiratory Protection** None required under normal usage.

**Hygiene Measures** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Side One Buff to Gold Side Two Pink to Brown	<b>Odor</b>	Characteristic
<b>Physical State</b>	BioPaddle - a paddle with two types of agar within a vial	<b>pH</b>	Approximately neutral
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	Not applicable
<b>Boiling Point/Range</b>	Not applicable		
<b>Molecular Weight</b>	No data available	<b>Solubility</b>	Soluble
<b>Vapor Pressure</b>	No information available	<b>Vapor Density</b>	No information available

**10. STABILITY AND REACTIVITY**

**Stability** Stable.

**Incompatible Products** Strong oxidizing agents. Acids. Alkalis.

**Conditions to Avoid** Exposure to air or moisture over prolonged periods. Excessive heat.

**Hazardous Decomposition Products** Carbon oxides (COx).

**Hazardous Reactions** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sucrose	29700 mg/kg ( Rat )	None Known	None Known
Yeast Extract	None Known	None Known	None Known
Beef Extract, bacteriological	None Known	None Known	None Known
Peptones, casein	None Known	None Known	None Known
Lactose, monohydrate	10 g/kg ( Rat )	None Known	None Known
Gelatin	None Known	None Known	None Known
Agar	11 g/kg ( Rat )	None Known	None Known
Water	90 mL/kg ( Rat )	None Known	None Known

### Chronic Toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Sucrose	None Known	None Known	None Known	None Known
Yeast Extract	None Known	None Known	None Known	None Known
Beef Extract, bacteriological	None Known	None Known	None Known	None Known
Peptones, casein	None Known	None Known	None Known	None Known
Lactose, monohydrate	None Known	None Known	None Known	None Known
Gelatin	None Known	None Known	None Known	None Known
Agar	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Sucrose	None Known	None Known	None Known
Yeast Extract	None Known	None Known	None Known
Beef Extract, bacteriological	None Known	None Known	None Known
Peptones, casein	None Known	None Known	None Known
Lactose, monohydrate	None Known	None Known	None Known
Gelatin	None Known	None Known	None Known
Agar	None Known	None Known	None Known
Water	None Known	None Known	None Known

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sucrose	None Known	None Known	None Known	None Known
Yeast Extract	None Known	None Known	None Known	None Known
Beef Extract, bacteriological	None Known	None Known	None Known	None Known
Peptones, casein	None Known	None Known	None Known	None Known
Lactose, monohydrate	None Known	None Known	None Known	None Known
Gelatin	None Known	None Known	None Known	None Known
Agar	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

**Persistence and Degradability**      No information available.

**Bioaccumulation/Accumulation**      No information available.

Chemical Name	Log Pow
Sucrose	None Known
Yeast Extract	None Known
Beef Extract, bacteriological	None Known
Peptones, casein	None Known
Lactose, monohydrate	None Known
Gelatin	None Known
Agar	None Known
Water	None Known

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**      Twist to remove paddle from vial. Fill vial to 40 mL fill line with 1:9 dilution of household bleach (5.25% sodium hypochlorite solution). Replace paddle in vial. Allow 15 minute contact time. Remove paddle. Discard bleach solution. Replace paddle in vial and dispose. Dispose of in accordance with local regulations.

**Contaminated Packaging**      Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sucrose - 57-50-1	None Known	None Known	None Known	None Known
Yeast Extract -	None Known	None Known	None Known	None Known
Beef Extract, bacteriological -	None Known	None Known	None Known	None Known
Peptones, casein - 91079-40-2	None Known	None Known	None Known	None Known
Lactose, monohydrate - 64044-51-5	None Known	None Known	None Known	None Known
Gelatin - 9000-70-8	None Known	None Known	None Known	None Known
Agar - 9002-18-0	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

**14. TRANSPORT INFORMATION**

**DOT**      Not regulated

**IATA**      Not regulated

**IMDG/IMO**

Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sucrose 57-50-1 (<1)	Present	X	X	ENCS	X	KE-17258	X	X
Yeast Extract (<1)	XU	X	X	ENCS	X	KE-05-1355	X	X
Beef Extract, bacteriological (<1)	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Peptones, casein 91079-40-2 (1)	TSCA	DSL	X	ENCS	X	KECL	X	AICS
Lactose, monohydrate 64044-51-5 (3)	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	X	X
Gelatin 9000-70-8 (4)	XU	X	X	8-313	X	KE-17574	X	X
Agar 9002-18-0 (4)	XU	X	X	ENCS	X	KE-00275	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Sucrose	57-50-1	<1	None Known
Yeast Extract		<1	None Known
Beef Extract, bacteriological		<1	None Known
Peptones, casein	91079-40-2	1	None Known
Lactose, monohydrate	64044-51-5	3	None Known
Gelatin	9000-70-8	4	None Known
Agar	9002-18-0	4	None Known
Water	7732-18-5	to 100%	None Known

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sucrose 57-50-1 (<1)	None Known	None Known	None Known	None Known
Yeast Extract (<1)	None Known	None Known	None Known	None Known

Beef Extract, bacteriological (<1)	None Known	None Known	None Known	None Known
Peptones, casein 91079-40-2 ( 1 )	None Known	None Known	None Known	None Known
Lactose, monohydrate 64044-51-5 ( 3 )	None Known	None Known	None Known	None Known
Gelatin 9000-70-8 ( 4 )	None Known	None Known	None Known	None Known
Agar 9002-18-0 ( 4 )	None Known	None Known	None Known	None Known
Water 7732-18-5 ( to 100% )	None Known	None Known	None Known	None Known

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sucrose	57-50-1	<1	None Known	None Known	None Known	None Known
Yeast Extract		<1	None Known	None Known	None Known	None Known
Beef Extract, bacteriological		<1	None Known	None Known	None Known	None Known
Peptones, casein	91079-40-2	1	None Known	None Known	None Known	None Known
Lactose, monohydrate	64044-51-5	3	None Known	None Known	None Known	None Known
Gelatin	9000-70-8	4	None Known	None Known	None Known	None Known
Agar	9002-18-0	4	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

**CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sucrose	None Known	None Known
Yeast Extract	None Known	None Known
Beef Extract, bacteriological	None Known	None Known
Peptones, casein	None Known	None Known
Lactose, monohydrate	None Known	None Known
Gelatin	None Known	None Known
Agar	None Known	None Known
Water	None Known	None Known

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Sucrose	57-50-1	None Known
Yeast Extract		None Known
Beef Extract, bacteriological		None Known
Peptones, casein	91079-40-2	None Known
Lactose, monohydrate	64044-51-5	None Known
Gelatin	9000-70-8	None Known
Agar	9002-18-0	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sucrose	X	None Known	X	None Known	X

Yeast Extract	None Known	None Known	None Known	None Known	None Known
Beef Extract, bacteriological	None Known	None Known	None Known	None Known	None Known
Peptones, casein	None Known	None Known	None Known	None Known	None Known
Lactose, monohydrate	None Known	None Known	None Known	None Known	None Known
Gelatin	None Known	None Known	None Known	None Known	None Known
Agar	None Known	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known	None Known

**International Regulations**

**Mexico - Grade**

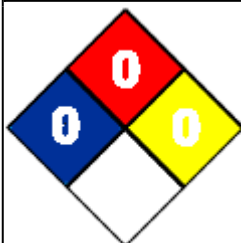

Chemical Name	Carcinogen Status	Exposure Limits
Sucrose	None Known	Mexico: TWA= 10 mg/m <sup>3</sup>
Yeast Extract	None Known	None Known
Beef Extract, bacteriological	None Known	None Known
Peptones, casein	None Known	None Known
Lactose, monohydrate	None Known	None Known
Gelatin	None Known	None Known
Agar	None Known	None Known
Water	None Known	None Known

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Sucrose 57-50-1 ( <1 )	Uncontrolled product according to WHMIS classification criteria
Yeast Extract ( <1 )	Not determined
Beef Extract, bacteriological ( <1 )	Not determined
Peptones, casein 91079-40-2 ( 1 )	Not determined
Lactose, monohydrate 64044-51-5 ( 3 )	Uncontrolled product according to WHMIS classification criteria
Gelatin 9000-70-8 ( 4 )	Not determined
Agar 9002-18-0 ( 4 )	Not determined
Water 7732-18-5 ( to 100% )	Uncontrolled product according to WHMIS classification criteria

**16. OTHER INFORMATION**

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table>	Health Hazard	0	Fire Hazard	0	Reactivity	0		
Health Hazard	0								
Fire Hazard	0								
Reactivity	0								

Prepared By Regulatory Affairs Department



**Issuing Date** 5/21/2012  
**Revision Date** 22-May-2012  
**Revision Note**

Initial Release

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**