

**1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION**

PRODUCT NAME: EXS III™ Basal Medium, Without Adenine Hemisulfate

PRODUCT NUMBER: E337

COMPANY INFO: PhytoTech Labs Inc.  
14610 W 106<sup>th</sup> St. Lenexa, KS 66215  
Phone: 1-888-749-8682 or 1-913-341-5343  
www.phytotechlab.comEMERGENCY PHONE NUMBER 1-800-535-5053 - US Only  
(INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Laboratory-use or Further Manufacture only

RESTRICTIONS ON USE: Products sold by PhytoTech Labs Inc. 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, in vitro diagnostics, or as household chemicals.**2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

GHS Classification:

H272 – Oxidizing solids (Category 3)

H315 – Skin irritation (Category 2)

H319 – Eye irritation (Category 2A)

H335 – Specific target organ toxicity – single exposure – Respiratory system (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram:

Signal Word: **Warning**

Hazard Statements:

H272 – May intensify fire; oxidizer.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

Precautionary Statements:

P221 – Take any precaution to avoid mixing with combustibles.

P280 – Wear protective clothing/protective gloves/eye protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture that is proprietary:

**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. **Get medical attention.**

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. **Get medical attention.**

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. <b>Get medical attention if irritation persists.</b>

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 oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulphur oxides, Hydrogen chloride gas, Potassium oxides, Sodium oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper oxides

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

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

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

## 7. HANDLING AND STORAGE

Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from combustible materials. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture. Product is hygroscopic.
Incompatibilities:	Strong oxidizing agent
Recommended Storage Temperature:	2-8°C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values (TLVs):	N/A
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.  
 Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.  
 A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Off-white to yellow powder  
 pH (3.87 g/L): 4.25 – 5.25  
 Solubility: Soluble in Water  
 Melting Range: No data available  
 Vapor Density: No data available  
 Vapor Pressure: No data available  
 Specific Gravity: No data available  
 Odor: Odorless  
 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, excessive heat  
 Incompatibles Materials: Strong oxidizing agents  
 Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Potassium oxides, Sodium oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper oxides

**11. TOXICOLOGICAL INFORMATION**

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): No data available  
 LD<sub>50</sub> (Oral-Mouse)(mg/Kg): No data available  
 LD<sub>50</sub> (Dermal-Rabbit)(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: Irritation, sneezing, gastrointestinal upset  
Specific Target Organ Toxicity: Single Exposure: No data available  
Repeated Exposure: No data available  
Target Organs: None identified  
Medical Conditions Aggravated by Exposure: None identified  
Routes of Entry: Inhalation, Ingestion, skin and eye contact  
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:

Product No: E337

Section 302 (EHS) Ingredients: No  
 Section 313 Ingredients: No  
 Section 304 (EHS/CERCLA) Ingredients: No  
 Section 311/312 Hazard: Chronic Health Hazard

**16. OTHER INFORMATION**

<b>HMIS Rating:</b>	<b>Health Hazard</b>	<b>Chronic Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>
	2	*	0	2
<b>NFPA Rating:</b>	<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Reactivity Hazard</b>	<b>Special Hazard</b>
	2	0	2	OX

\*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

**16. OTHER INFORMATION**

**PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY OR FURTHER MANUFACTURING USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

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