

 Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.	
IDENTITY (As Used on Label and List) Agrose	
Section I - Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14676 Rothgeb Drive Rockville, MD 20850	
Section II - Hazardous Ingredients/Identify Information Hazardous Components Specific Chemical Identity, Common Name(s) OSHA PEL ACGIH TLV Recommended % (Optional) Standard This product contains no hazardous materials as defined by the OSHA Hazard Communication Standard. CAS #9012-36-6	
Section III - Physical/Chemical Characteristics Boiling Point For 1% solution 194 F Specific Gravity (H ₂ O = 1) No data Vapor Pressure (mm Hg) No data Melting Point No data Vapor Density (AIR = 1) No data Evaporation Rate (Butyl Acetate = 1) No data Solubility in Water Insoluble - cold	
Appearance and Odor White powder, no odor	
Section IV - Physical/Chemical Characteristics N.D. = No data Flash Point (Method Used) No data Flammable Limits LEL N.D. UEL N.D. Extinguishing Media Water spray, dry chemical, carbon dioxide, halon or standard foam	
Special Fire Fighting Procedures Possible fire hazard when exposed to heat or flame	
Unusual Fire and Explosion Hazards None	

Section V - Reactivity Data Stability Unstable Stable X None Conditions to Avoid None	
Incompatibility No data available Hazardous Decomposition or Byproducts	
Hazardous Polymerization May Occur Will Not Occur X None Conditions to Avoid None	
Section VI - Health Hazard Data Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes Health Hazards (Acute and Chronic) Inhalation: No data available Ingestion: Large amounts may cause diarrhea Carcinogenicity: No data available NTP? IARC Monographs? OSHA Regulation?	
Signs and Symptoms of Exposure No data available Medical Conditions Generally Aggravated by Exposure No data available Emergency First Aid Procedures Treat symptomatically and supportively	
Section VII - Precautions for Safe Handling and Use Steps to be Taken in case of Material Released or Spilled Sweep up and place in suitable container for disposal	
Waste Disposal Method Normal solid waste disposal	
Precautions to be Taken in Handling and Storing None	
Other Precautions None	
Section VIII - Control Measures Respiratory Protection (Specify Type) Chemical cartridge respirator with full facepiece.	
Ventilation Local Exhaust Yes Special None Mechanical (General) Yes Other None	
Protective Gloves Yes Eye Protection Safety goggles Other Protective Clothing or Equipment Impervious clothing to prevent skin contact Work/Hygiene Practices None	

 Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.	
IDENTITY (As Used on Label and List) 50x Electrophoresis Buffer	
Section I - Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14676 Rothgeb Drive Rockville, MD 20850	
Section II - Hazardous Ingredients/Identify Information Hazardous Components Specific Chemical Identity, Common Name(s) OSHA PEL ACGIH TLV Recommended % (Optional) Standard This product contains no hazardous materials as defined by the OSHA Hazard Communication Standard.	
Section III - Physical/Chemical Characteristics Boiling Point No data Specific Gravity (H ₂ O = 1) No data Vapor Pressure (mm Hg) No data Melting Point No data Vapor Density (AIR = 1) No data Evaporation Rate (Butyl Acetate = 1) No data Solubility in Water Appreciable, (greater than 10%)	
Appearance and Odor Clear, liquid, slight vinegar odor	
Section IV - Physical/Chemical Characteristics N.D. = No data Flash Point (Method Used) No data Flammable Limits LEL N.D. UEL N.D. Extinguishing Media Use extinguishing media appropriate for surrounding fire.	
Special Fire Fighting Procedures Wear protective equipment and SCBA with full facepiece operated in positive pressure mode.	
Unusual Fire and Explosion Hazards None identified	

Section V - Reactivity Data Stability Unstable Stable X None Conditions to Avoid None	
Incompatibility Strong oxidizing agents	
Hazardous Decomposition or Byproducts Carbon monoxide, Carbon dioxide	
Hazardous Polymerization May Occur Will Not Occur X None Conditions to Avoid None	
Section VI - Health Hazard Data Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes Health Hazards (Acute and Chronic) None Carcinogenicity: None identified NTP? IARC Monographs? OSHA Regulation?	
Signs and Symptoms of Exposure Irritation to upper respiratory tract, skin, eyes Medical Conditions Generally Aggravated by Exposure None	
Emergency First Aid Procedures Ingestion: If conscious, give large amounts of water Eyes: Flush with water. Inhalation: Move to fresh air. Skin: Wash with soap and water	
Section VII - Precautions for Safe Handling and Use Steps to be Taken in case of Material Released or Spilled Mop up spill and rinse with water, or collect in absorbent material and dispose of the absorbent material Waste Disposal Method Dispose in accordance with all applicable federal, state, and local environmental regulations.	
Precautions to be Taken in Handling and Storing Avoid eye and skin contact.	
Other Precautions None	
Section VIII - Control Measures Respiratory Protection (Specify Type)	
Ventilation Local Exhaust Yes Special None Mechanical (General) Yes Other None	
Protective Gloves Yes Eye Protection Safety goggles Other Protective Clothing or Equipment None Work/Hygiene Practices None	

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IDENTITY (As Used on Label and List) Practice Gel Loading Solution	
Section I - Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14676 Rothgeb Drive Rockville, MD 20850	
Section II - Hazardous Ingredients/Identify Information Hazardous Components Specific Chemical Identity, Common Name(s) OSHA PEL ACGIH TLV Recommended % (Optional) Standard This product contains no hazardous materials as defined by the OSHA Hazard Communication Standard.	
Section III - Physical/Chemical Characteristics Boiling Point No data Specific Gravity (H ₂ O = 1) No data Vapor Pressure (mm Hg.) No data Melting Point No data Vapor Density (AIR = 1) No data Evaporation Rate (Butyl Acetate = 1) No data Solubility in Water Soluble	
Appearance and Odor Blue liquid, no odor	
Section IV - Physical/Chemical Characteristics Flash Point (Method Used) No data Flammable Limits LEL No data UEL No data Extinguishing Media Dry chemical, carbon dioxide, water spray or foam	
Special Fire Fighting Procedures Use agents suitable for type of surrounding fire. Keep upwind, avoid breathing hazardous sulfur oxides and bromides. Wear SCBA.	
Unusual Fire and Explosion Hazards Unknown	

Section V - Reactivity Data Stability Unstable Stable X None Conditions to Avoid None	
Incompatibility None	
Hazardous Decomposition or Byproducts Sulfur oxides, and bromides	
Hazardous Polymerization May Occur Will Not Occur X None Conditions to Avoid None	
Section VI - Health Hazard Data Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes Health Hazards (Acute and Chronic) Acute eye contact: May cause irritation. No data available for other routes. Carcinogenicity: No data available NTP? IARC Monographs? OSHA Regulation?	
Signs and Symptoms of Exposure May cause skin or eye irritation Medical Conditions Generally Aggravated by Exposure None reported	
Emergency First Aid Procedures Treat symptomatically and supportively. Rinse contacted area with copious amounts of water.	
Section VII - Precautions for Safe Handling and Use Steps to be Taken in case of Material Released or Spilled Wipe eye and skin protection and mop spill area. Rinse with water.	
Waste Disposal Method Observe all federal, state, and local regulations.	
Precautions to be Taken in Handling and Storing Avoid eye and skin contact.	
Other Precautions None	
Section VIII - Control Measures Respiratory Protection (Specify Type)	
Ventilation Local Exhaust Yes Special None Mechanical (General) Yes Other None	
Protective Gloves Yes Eye Protection Splash proof goggles Other Protective Clothing or Equipment None required Work/Hygiene Practices Avoid eye and skin contact	

Material Safety Data Sheets

Full-size (8.5 x 11") pdf copy of MSDS is available at www.edvotek.com or by request.

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Experiment

 Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.			
IDENTITY (As Used on Label and List) InstaStain® Ethidium Bromide			
<small>Note: Blank space for information that is not applicable, or no information is available, this space must be marked to indicate that.</small>			
Section I Manufacturer's Name InstaStain, Inc. P.O. Box 1232 West Bethesda, MD 20827			
Emergency Telephone Number	(301) 251-5990		
Telephone Number for information	(301) 251-5990		
Date Prepared	10/05/06		
Signature of Preparer (optional)			
Section II - Hazardous Ingredients/Identify Information Hazardous Components Specific Chemical Identity, Common Name(s) OSHA PEL ACGIH TLV Other Limits Recommended % (Optional)			
Ethidium Bromide Data not available			
CAS # 139-33-3			
Section III - Physical/Chemical Characteristics			
Boiling Point	No data	Specific Gravity (H ₂ O = 1)	No data
Vapor Pressure (mm Hg.)	No data	Melting Point	No data
Vapor Density (AIR = 1)	No data	Evaporation Rate (Butyl Acetate = 1)	No data
Solubility in Water Soluble			
Appearance and Odor Chemical bound to paper, no odor			
Section IV - Physical/Chemical Characteristics			
Flash Point (Method Used)	No data	Flammable Limits	LEL N.D. UEL N.D.
Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam		
Special Fire Fighting Procedures	Wear protective clothing and SCBA to prevent contact with skin & eyes		
Unusual Fire and Explosion Hazards Emits toxic fumes			

Section V - Reactivity Data			
Stability	Unstable Stable	Conditions to Avoid	None
Incompatibility	Strong oxidizing agents		
Hazardous Decomposition or Byproducts Carbon dioxide, nitrogen oxide, hydrogen bromide gas			
Hazardous Polymerization	May Occur Will Not Occur	Conditions to Avoid	None
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic)	Acute: Material irritating to mucous membranes, upper respiratory tract, eyes, skin Chronic: May cause skin irritation		
Carcinogenicity	No data available NTP?	IARC Monographs?	OSHA Regulation?
Signs and Symptoms of Exposure	Irritation to mucous membranes and upper respiratory tract		
Medical Conditions Generally Aggravated by Exposure	No data		
Emergency First Aid Procedures	Treat symptomatically and supportively		
Section VII - Precautions for Safe Handling and Use			
Steps to be taken in case Material is Released or Spilled Wear SCBA, rubber boots, rubber gloves			
Waste Disposal Method Mix material with combustible solvent and burn in a chemical incinerator equipped afterburner and scrubber			
Precautions to be taken in Handling and Storing Use in chemical fume hood with proper protective lab gear.			
Other Precautions Mutagen			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)	SCBA		
Ventilation	Local Exhaust: Yes	Special Other	Chem. Fume hood
Protective Gloves	Mechanical (General): No	Other	None
Other Protective Clothing or Equipment	Rubber boots	Eye Protection	Chem. safety goggles
Work/Hygiene Practices	Use in chemical fume hood with proper protective lab gear.		

 Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.			
IDENTITY (As Used on Label and List) InstaStain® Blue, FlashBlue™			
<small>Note: Blank space for information that is not applicable, or no information is available, this space must be marked to indicate that.</small>			
Section I Manufacturer's Name EDVOTEK, Inc. Address (Number, Street, City, State, Zip Code) 14676 Rothgeb Drive Rockville, MD 20850			
Emergency Telephone Number	(301) 251-5990		
Telephone Number for information	(301) 251-5990		
Date Prepared	03-26-09		
Signature of Preparer (optional)			
Section II - Hazardous Ingredients/Identify Information Hazardous Components Specific Chemical Identity, Common Name(s) OSHA PEL ACGIH TLV Other Limits Recommended % (Optional)			
Methylene Blue Chloride No data available			
CAS # 617-734			
Section III - Physical/Chemical Characteristics			
Boiling Point	No data	Specific Gravity (H ₂ O = 1)	No data
Vapor Pressure (mm Hg.)	No data	Melting Point	No data
Vapor Density (AIR = 1)	No data	Evaporation Rate (Butyl Acetate = 1)	No data
Solubility in Water Soluble - cold			
Appearance and Odor Chemical bound to paper, no odor			
Section IV - Physical/Chemical Characteristics			
Flash Point (Method Used)	No data available	Flammable Limits	LEL N.D. UEL No data
Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam		
Special Fire Fighting Procedures	Wear protective clothing and protective apparatus to prevent contact with skin and eyes		
Unusual Fire and Explosion Hazards Emits toxic fumes under fire conditions			

Section V - Reactivity Data			
Stability	Unstable Stable	Conditions to Avoid	None
Incompatibility	Strong oxidizing agents		
Hazardous Decomposition or Byproducts Toxic fumes of Carbon monoxide, Carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen, chloride gas			
Hazardous Polymerization	May Occur Will Not Occur	Conditions to Avoid	None
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic)	Skin: May cause skin irritation Eyes: May cause eye irritation Inhalation: Cyanosis		
Carcinogenicity	No data available NTP?	IARC Monographs?	OSHA Regulation?
Signs and Symptoms of Exposure	No data available		
Medical Conditions Generally Aggravated by Exposure	No data available		
Emergency First Aid Procedures	Treat symptomatically		
Section VII - Precautions for Safe Handling and Use			
Steps to be taken in case Material is Released or Spilled Ventilate area and wash spill site			
Waste Disposal Method Mix material with a combustible solvent and burn in chemical incinerator equipped with afterburner and scrubber. Check local and state regulations.			
Precautions to be taken in Handling and Storing Keep tightly closed. Store in cool, dry place			
Other Precautions None			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)	MOSHOSHHA approved, SCBA		
Ventilation	Local Exhaust: Required	Special Other	None
Protective Gloves	Mechanical (General): Required	Other	None
Other Protective Clothing or Equipment	Rubber boots	Eye Protection	Chem. safety goggles
Work/Hygiene Practices	Use in chemical fume hood with proper protective lab gear.		

Mapping of Restriction Sites on Plasmid DNA

EDVOTEK Series 100 Electrophoresis Experiments:

Cat. #	Title
101	Principles and Practice of Agarose Gel Electrophoresis
102	Restriction Enzyme Cleavage Patterns of DNA
105	Mapping of Restriction Sites on Plasmid DNA
104	Size Determination of DNA Restriction Fragments
105	Mapping of Restriction Sites on Plasmid DNA
105	DNA Fingerprinting - Identification of DNA by Restriction Fragmentation Patterns
112	Analysis of <i>Eco</i> RI Cleavage Patterns of Lambda DNA
114	DNA Paternity Testing Simulation
115	Cancer Gene Detection
116	Sickle Cell Gene Detection (DNA-based)
117	Detection of Mad Cow Disease
118	Cholesterol Diagnostiics
124	DNA-based Screening for Smallpox
130	DNA Fingerprinting - Amplification of DNA for Fingerprinting



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