

 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) This product contains no hazardous materials as defined by the OSHA Hazard Communication Standard.	
Section III - Physical/Chemical Characteristics Boiling Point For 1% solution (94 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	

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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) 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	

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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) 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 Conditions to Avoid None	
Incompatibility No data available	
Hazardous Decomposition or Byproducts	
Hazardous Polymerization May Occur Will Not Occur Conditions to Avoid None	
Section VI - Health Hazard Data Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes Health Hazards (Acute and Chronic) Inhalation: Yes Ingestion: Yes 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	
Protective Gloves Yes Mechanical (General) Yes Other None	
Other Protective Clothing or Equipment Impervious clothing to prevent skin contact	
Work/Hygiene Practices None	

Section V - Reactivity Data Stability Unstable Stable Conditions to Avoid None	
Incompatibility Strong oxidizing agents	
Hazardous Decomposition or Byproducts Carbon monoxide, Carbon dioxide	
Hazardous Polymerization May Occur Will Not Occur 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	
Protective Gloves Yes Mechanical (General) Yes Other None	
Other Protective Clothing or Equipment None	
Work/Hygiene Practices None	

Section V - Reactivity Data Stability Unstable Stable Conditions to Avoid None	
Incompatibility None	
Hazardous Decomposition or Byproducts Sulfur oxides, and bromides	
Hazardous Polymerization May Occur Will Not Occur 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	
Protective Gloves Yes Mechanical (General) Yes Other None	
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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IDENTITY (As Used on Label and List) Blue Blot DNA Stain™ Note: Blank space are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.	
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 10/10/06 Signature of Preparer (optional)	
Section II - Hazardous Ingredients/Identify Information Hazardous Components, Specific Gravity, Concentration, CAS #, OSHA PEL, ACGIH TLV, Other Limits, Recommended % (Optional) Methylene Blue 3.7 lbs (Dimethylamino) Phenothiazin S IUM Chloride No data available	
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 (Acetate = 1) No data Solubility in Water Soluble - cold Appearance and Odor Blue solution, no odor	
Section IV - Physical/Chemical Characteristics Flash Point (Method Used) No data available Extinguishers Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam Special Fire Fighting Procedures Self contained breathing apparatus and protective clothing 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 Hazard (Acute and Chronic) Eyes: May cause eye irritation Inhalation: Cytotoxicity Skin: May cause skin irritation NTP? IARC Monographs? OSHA Regulation? Carcinogenicity Meets criteria for proposed OSHA medical records rule PERAC 47.30420.82 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) MIOHOSHA approved, SCBA Ventilation Local Exhaust Special Mechanical (General) Required Other Protective Gloves Rubber Eye Protection Chem. safety goggles Other Protective Clothing or Equipment Rubber boots Workhygienic Practices	

Southern Blot Analysis

Other EDVOTEK DNA Fingerprinting Experiments:

Cat. #	Title
109	DNA Fingerprinting - Identification of DNA by Restriction Fragmentation Patterns
114	DNA Paternity Testing Simulation
130	DNA Fingerprinting - Amplification of DNA for Fingerprinting
225	DNA Fingerprinting - Using Restriction Enzymes
311	DNA Fingerprinting - Southern Blot Analysis Using Non-Isotopic Detection of DNA
371	DNA Fingerprinting Using PCR



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