

Elastic Stain Kit (Modified Verhoff's)

Kit Contents:

<u>Item #</u>	<u>Description</u>	<u>Volume</u>	<u>Storage</u>
HSV250	Hematoxylin Solution (5%)	250ml	Room Temperature
FCC125	Ferric Chloride (10%, Aqueous)	125 ml	Room Temperature
LIS125	Lugol's Iodine Solution	125 ml	Room Temperature
FCB125	Ferric Chloride (2%) Differentiating Solution	125 ml	Room Temperature
STB125	Sodium Thiosulfate Solution (5%)	125 ml	Room Temperature
VGS125	Van Gieson's Solution	125 ml	Room Temperature

PRODUCT NAME:	Hematoxylin Solution (5%)
CATALOG #:	HSV
PRODUCT DESCRIPTION:	Laboratory reagent used in the Elastic Stain Kit (catalog# ETS-1) for histologic procedures.
COMPOSITION:	Ethanol, CAS# 64-17-5 Isopropanol, CAS# 67-63-0 Hematoxylin, CAS# 517-28-2 May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Transparent red/brown liquid. Mild alcohol odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	1.6
VAPOR PRESSURE	44.2
EVAPORATION RATE	3.30
MELTING POINT	N/A
BOILING POINT	78.3°C
FLASH POINT	15.5°C
AUTO-IGNITION POINT	399°C
LOWER EXPLOSIVE LIMIT IN AIR	3.3%
UPPER EXPLOSIVE LIMIT IN AIR	19%
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, alcohol foam, or dry chemical. Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) Vapor may travel considerable distance to source of ignition and flash back.
REACTIVITY DATA:	
STABILITY	Stable.
INCOMPATIBLE MATERIALS	Strong oxidizers, silver salts, acid chlorides, alkali metals, metal hydrides, hydrazine.
HAZARDOUS DECOMPOSITION PRODUCTS	Will not occur.
HAZARDOUS POLYMERIZATION	None reported.

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HEALTH HAZARD DATA:									
ACUTE EFFECTS:	<p>Eye Contact: May cause irritation. Skin Contact: May irritate skin. Ingestion: Single dose oral toxicity is low. May cause intoxication, headache, dizziness. Inhalation: May irritate respiratory tract.</p>								
CHRONIC EFFECTS:	<p>Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.</p>								
FIRST AID:	<p>Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.</p>								
ADDITIONAL INFORMATION:									
HMS HAZARD CODES:	<table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>3</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td>G</td> </tr> </table> <p>Use organic solvent respirator.</p>	HEALTH	1	FLAMMABILITY	3	PHYSICAL HAZARD	0	PERSONAL PROTECTION	G
HEALTH	1								
FLAMMABILITY	3								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	G								
SPILL OR LEAK PROCEDURES:	<p>Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.</p>								
WASTE DISPOSAL METHOD:	<p>Observe all federal, state and local environmental regulations.</p>								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	<p>Wear protective clothing. Flammable. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep tightly closed. Irritant. Keep container tightly closed. Avoid breathing vapor.</p>								
ADDITIONAL COMMENTS:	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.</p>								

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

PRODUCT NAME:	Ferric Chloride (10%, Aqueous)
CATALOG #:	FCC
PRODUCT DESCRIPTION:	Laboratory reagent.
COMPOSITION:	Water, CAS# 7732-18-5 Ferric Chloride, CAS# 10025-77-1 May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Transparent yellow liquid. Odorless.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	Aqueous solution.
AUTO-IGNITION POINT	Aqueous solution.
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical. Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) Irritating hydrogen chloride fumes may form under fire conditions.
REACTIVITY DATA:	
STABILITY	Stable under normal temperatures and pressures.
INCOMPATIBLE MATERIALS	Metals, allyl chloride, sodium, potassium.
HAZARDOUS DECOMPOSITION PRODUCTS	May produce hydrogen chloride.
HAZARDOUS POLYMERIZATION	None reported.
HEALTH HAZARD DATA:	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. Inhalation: May irritate respiratory tract.
CHRONIC EFFECTS:	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.
ADDITIONAL INFORMATION:	

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HMS HAZARD CODES:	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	C
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Wear protective clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep tightly closed. Irritant. Keep container tightly closed. Avoid breathing vapor.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.	

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PRODUCT NAME:	Lugol's Iodine Solution
CATALOG #:	LIS
PRODUCT DESCRIPTION:	Laboratory reagent.
COMPOSITION:	Water, CAS# 7732-18-5 Potassium Iodide, CAS# 7681-11-0 Iodine, CAS# 7553-56-2 May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Dark amber/brown slightly transparent liquid. Slight iodine odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	Aqueous solution.
AUTO-IGNITION POINT	Aqueous solution.
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical. Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) May release corrosive iodine vapor under fire conditions.
REACTIVITY DATA:	
STABILITY	Stable under normal temperatures and pressures.
INCOMPATIBLE MATERIALS	Reactive with metals, organic materials, and other combustible materials.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic chlorides and iodides.
HAZARDOUS POLYMERIZATION	None reported.
HEALTH HAZARD DATA:	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. Slightly toxic by ingestion. Inhalation: May irritate respiratory tract.
CHRONIC EFFECTS:	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.
ADDITIONAL INFORMATION:	

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HMIS HAZARD CODES:	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	B
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Wear protective clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep tightly closed. Irritant. Keep container tightly closed. Avoid breathing vapor.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.	

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PRODUCT NAME:	Ferric Chloride (2%) Differentiating Solution
CATALOG #:	FCB
PRODUCT DESCRIPTION:	Laboratory reagent.
COMPOSITION:	Water, CAS# 7732-18-5 Ferric Chloride, CAS# 10025-77-1 May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Transparent yellow liquid. Odorless.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	Aqueous solution.
AUTO-IGNITION POINT	Aqueous solution.
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical. Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) Irritating hydrogen chloride fumes may form under fire conditions.
REACTIVITY DATA:	
STABILITY	Stable under normal temperatures and pressures.
INCOMPATIBLE MATERIALS	Metals, allyl chloride, sodium, potassium.
HAZARDOUS DECOMPOSITION PRODUCTS	May produce hydrogen chloride.
HAZARDOUS POLYMERIZATION	None reported.
HEALTH HAZARD DATA:	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. Inhalation: May irritate respiratory tract.
CHRONIC EFFECTS:	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.
ADDITIONAL INFORMATION:	

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HMIS HAZARD CODES:	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	C
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Wear protective clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep tightly closed. Irritant. Keep container tightly closed. Avoid breathing vapor.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.	

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PRODUCT NAME:	Sodium Thiosulfate Solution (5%)
CATALOG #:	STB
PRODUCT DESCRIPTION:	Laboratory reagent.
COMPOSITION:	Water, CAS# 7732-18-5 Sodium Thiosulfate, CAS# 7772-98-7 May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Clear, colorless liquid. Slight odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	100° C.
FLASH POINT	Aqueous solution.
AUTO-IGNITION POINT	Aqueous solution.
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical. Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) No unusual fire or explosion hazards expected.
REACTIVITY DATA:	
STABILITY	Stable.
INCOMPATIBLE MATERIALS	N/A
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Monoxide, Carbon Dioxide.
HAZARDOUS POLYMERIZATION	Will not occur.
HEALTH HAZARD DATA:	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. Inhalation: Not an expected source of exposure.
CHRONIC EFFECTS:	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.
ADDITIONAL INFORMATION:	

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HMIS HAZARD CODES:	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	B
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Wear protective clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep tightly closed. Irritant. Keep container tightly closed.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.	

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PRODUCT NAME:	Van Gieson's Solution
CATALOG #:	VGS
PRODUCT DESCRIPTION:	Laboratory reagent used in various special stain procedures.
COMPOSITION:	Water, CAS# 7732-18-5 Picric Acid, CAS# 88-89-1 May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Red liquid.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	Aqueous solution.
AUTO-IGNITION POINT	Aqueous solution.
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical. Wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) Produces carbon oxides under fire conditions. May react explosively when dried out.
REACTIVITY DATA:	
STABILITY	Stable under normal temperatures and pressures.
INCOMPATIBLE MATERIALS	Strong bases, metals, reducing agents, ammonia.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, carbon dioxide.
HAZARDOUS POLYMERIZATION	None reported.
HEALTH HAZARD DATA:	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. Inhalation: May irritate respiratory tract.
CHRONIC EFFECTS:	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.

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ADDITIONAL INFORMATION:									
HMS HAZARD CODES:	<table border="1"> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td>B</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	PHYSICAL HAZARD	0	PERSONAL PROTECTION	B
HEALTH	2								
FLAMMABILITY	0								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	B								
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.								
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Wear protective clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep tightly closed. Irritant. Keep container tightly closed. Avoid breathing vapor. Do not allow reagent to dry out.								
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.								