

Thermo Scientific Rapid-Chrome Frozen Section Staining Kit Instructions for Use

This special staining kit simplifies the routine staining of frozen tissue sections from a cryostat.

With the Thermo Scientific™ Rapid-Chrome™ Staining Kit, all the reagents for permanently stained frozen sections are supplied in one convenient carrying tray. The die-cut slots in the tray base accommodate each jar lid to reduce the problem of cross-contamination of reagents. In addition, the reagents are sequentially aligned so that the technician can dip the microscope slide progressively from jar to jar.

















This kit can stain approximately 100 slides, although the actual number may vary due to the type and thickness of the specimen.

Warnings and Precautions

For in vitro diagnostic use.

Warning: Contains flammable reagents.

See Material Safety Data Sheets for warnings and precautions, as well as R & S code definitions. The following symbols are used on the product labels and packaging:

	Refer to manual		Flammable
	Use by		Harmful
	Lot number		Irritant
	Product order number		Poison
	For in vitro diagnostic use		Pollutant
	Protected from heat		Corrosive
	Store between 20°C		Manufacturer
	Conformity with the essential Health and Safety requirements set out in European Directives		Authorized representative in the European community

Note: This kit contains Reagent Alcohol (100% and 95%) and Xylene, which are considered general laboratory reagents.

Storage Instructions

Keep away from direct sunlight. Store at room temperature. Do not handle or store near heat, sparks, flames or strong oxidants.

Lot number and expiration date are printed on the tray, not on the individual components.

Instructions for Use

A. Kit Preparation

1. All solutions required are provided in the tray and are ready to use full strength.
2. If less intense cytoplasmic staining is desired, Eosin-Y can be diluted with 80 – 85% alcohol (ethanol, reagent, or methanol).
3. Bluing Reagent should be changed as often as necessary to retain its alkalinity.
4. Other solutions requiring periodic replacement are:
 - Distilled Water – frequently
 - Alcohols – as needed (ethanol or reagent)
 - Xylene – as needed

B. Specimen Preparation

1. To minimize the formation of artifacts and distortion due to air-drying and autolysis, freeze tissue as quickly as possible.
2. Adhere the tissue to the specimen holder ("microtome chuck") using Thermo Scientific Shandon Cryomatrix™. The use of Cryomatrix increases the embedding mass and tends to reduce any distortions occurring during cutting and handling.
3. Cut and mount the frozen section in the usual manner.
4. Place slide in Thermo Scientific Rapid-Fixx™ immediately.

C. Staining Procedure

1. Remove all lids and place each in its slot to the right of the jar.
2. Place slides in Rapid-Fixx without delay.
3. Process slides through solutions following the directions indicated by the arrows.
4. A suggested staining protocol can be found below. Staining times may be adjusted to suit individual preferences in stain intensity.
5. Coverslip the slide with Thermo Scientific Shandon Mounting Medium.
6. Replace distilled waters, alcohols, xylene and Bluing Reagent if necessary.
7. Replace all lids on their original jars to prevent possible contamination.

Frozen Section Staining Protocol

Step	Solution	Time
1	Rapid-Fixx	5 – 7 seconds
2	Distilled Water	5 – 10 dips
3	Hematoxylin	1 minute
4	Distilled Water	5 – 10 dips
5	Bluing Reagent	3 dips
6	95% Alcohol	5 – 7 dips
7	Eosin-Y	15 seconds
8	95% Alcohol	5 – 7 dips
9	100% Alcohol	5 – 7 dips
10	100% Alcohol	5 – 7 dips
11	Xylene	5 – 7 dips
12	Xylene	5 – 7 dips

Note: Thermo has not validated the protocol illustrated here and takes no responsibility for its use. Customers should always validate protocols before placing any reliance on them.

Active Ingredients

100% Alcohol:

Danger. Poison. Vapor harmful. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Flammable.

95% Alcohol:

Danger. Poison. Vapor harmful. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Flammable.

Rapid-Fixx:

Warning: strong sensitizer. Avoid prolonged or repeated exposure. Danger. Poison. Vapor harmful. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Flammable.

Gill 3 Hematoxylin:

Warning: harmful or fatal if swallowed.

Bluing Reagent:

Danger. Poison. Vapor harmful. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Flammable.

Eosin-Y:

Danger. Poison. Vapor harmful. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Flammable.

Xylene:

Danger. Harmful or fatal if swallowed. If swallowed, do not induce vomiting. Call a physician immediately. Vapor harmful. Flammable.

Shandon Mounting Medium:

Danger. Harmful or fatal if swallowed. If swallowed, do not induce vomiting. Call a physician immediately. Vapor harmful. Flammable.

Order Information

Product	Unit	REF
Rapid-Chrome Frozen Section Staining Kit	100 slide capacity	9990001
Rapid-Fixx Fixative	2 x 1 Liter	6764212
Shandon Cryomatrix Frozen Embedding Medium bottles	Case of 4 squeeze (120 ml)	6769006

