
ACID CLEANING SOLUTIONS FOR GLASSWARE

PURPOSE: For cleaning stained glassware, and for procedures requiring acid cleaned glassware. See the Histology Standard Operating Manual, Laboratory Maintenance chapter; Glassware cleaning.

EQUIPMENT & SUPPLIES: 4000 ml flask, magnetic stir bar, stir plate. 6-7 liter covered glass container (crook).

REAGENT:

Acid Cleaning Solution		0.15% Acid	Rinse	for
Potassium dichromate	400.0 gm	Glassware		
Distilled water	4000.0 ml	Distilled water	985.00 ml	
Sulfuric acid	400.0 ml	Hydrochloric acid	15.0 ml	

Dissolve potassium dichromate in water. Pour solution into crook, slowly add sulfuric acid. Keeps until solution turns dark brown, depends upon use. Label, date, initial.

Mix well, label.

SAFETY/PPE: Nitrile gloves, goggles, lab coat.

Sulfuric acid: Toxic on inhalation of fumes. Target organ effects on skin, respiratory and reproductive systems and fetal tissue. Irritant to skin, eyes and respiratory tract. Use caution when working with sulfuric acid, add slowly to solution.

Potassium dichromate: Toxic by inhalation and ingestion. Target organ effects on reproductive system and fetal tissue. Corrosive to skin, eyes and mucous membranes.

Hydrochloric acid: Strong irritant to skin, eyes and respiratory system. Target organ effects via inhalation on skin, respiratory, reproductive and fetal systems. Corrosive.

REFERENCES:

Preece, A, A Manual for Histologic Technicians, 3rd ED, 1972, pp 27

Crookham,J, Dapson,R, Hazardous Chemicals in the Histopathology
Laboratory, 2nd ED, 1991, Anatech

Prepared: _____ By: _____

Approved: _____ By: _____

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0.15% ACID RINSE: GLASSWARE

Distilled water 985.00 ml
Hydrochloric acid 15.0 ml

Mix well, label.

CAUTION: Acid, corrosive.

SAFETY/PPE: Wear gloves, goggles and lab coat. Add acid to water, work in well ventilated area.

1. Pour into glassware, let set for 2-5 minutes.
2. Rinse with 10 changes of distilled water.

TECH: _____

DATE: _____

EXPIRATION: _____

ACID CLEANING SOLUTION

Potassium dicromate 400.0 gm
Distilled water 4000.0 ml
Sulfuric acid 400.0 ml

Dissolve potassium dichromate in water. Pour solution into crock, slowly add sulfuric acid. Keeps until solution turns dark brown, depends upon use. Label, date, initial.

CAUTION: Acid, corrosive, carcinogen.

SAFETY/PPE: Nitril gloves, goggles, lab coat. Use caution when working with sulfuric acid, add slowly to solution.

DATE: _____

TECH: _____