Subject: B-5 FIXATIVE

PURPOSE: B-5 fixative is routinely used for bone marrow biopsies, and on some lymph nodes when lymphomas are suspected.

REAGENTS:

Stock B-5 Solution:
- Mercuric chloride 12.0 gm
- Sodium acetate 2.5 gm
- Distilled water 200.0 ml

Mix well, do not use any metal utensils or foil lined lids, solution is stable for 1 year. Initial and date.

Working Solution:
- Stock solution 20.0 ml
- Formaldehyde 2.0 ml

Mix immediately before use. Discard solution according to the hazardous waste regulations. CAUTION: CARCINOGENIC, IRRITANT, CORROSIVE

SAFETY: Work in well ventilated area, wear gloves, lab coat, and goggles. Mercuric chloride; severe skin and eye irritant. Target organ effects on reproductive, urogenital, respiratory, gastrointestinal and fetal systems via ingestion and inhalation routes. Corrosive to metals.

Formaldehyde: severe eye and skin irritant. Sensitizer by skin and respiratory contact. Toxic by ingestion and inhalation. Target organ effects on respiratory system. Corrosive. Carcinogen.

DISPOSAL: Pour used B-5 fixative in a glass bottle labeled as "B-5 Waste", do not pour down the drain. Follow instructions for WASTE REDUCTION in the Histology SOP Manual. To be disposed of by Safety Services.

FIXATION TIME: 2 to 4 hours, note time on container, do not leave overnight.

PROCEDURE:
1. Retain fixed specimen in 10% formalin or 70% alcohol.
2. Tissue sections that are B-5 fixed contain mercury deposits and must be treated to remove the pigments prior to staining, after deparaffinizing:
   a) Lugol’s iodine: 5 minutes, wash.
   b) 5% hypo: 5 minutes, wash and stain as desired.

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

Prepared: ____________________________  By: ____________________________

Approved: ____________________________  By: ____________________________
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Mix immediately before use.

**CAUTION: CARCINOGENIC CONTAINS FORMALDEHYDE, IRRITANT, CORROSIVE**

**SAFETY:** Avoid contact and inhalation. Do not pour down the drain, pour used B-5 fixative in a glass bottle labeled as "B-5 Waste".

DATE: _________________________

TECH: _________________________

EXPIRATION: ___________________