



AZAN STAIN KIT PROCEDURE

Item# CUKTAZA

(Revised 03/7/18)

**KIT
COMPONENTS
INCLUDED:**

200ml. **AZOCARMINE B SOLUTION**
100ml. **ACETIC ALCOHOL SOLUTION**
1 PINT **ANILINE BLUE SOLUTION**

100ml. **ANILINE ALCOHOL SOLUTION**
100ml. **PHOSPHOTUNGSTIC ACID SOLUTION**

PRINCIPLE: This kit demonstrates chromatin, collagen, muscle, neuroglia, osteocytes, and reticulum.

SPECIMEN: Any well fixed paraffin embedded tissue cut at 4 to 6 microns.

QUALITY CONTROL: American MasterTech Scientific Recommended Control Slide:
Trichrome, CST0125P; Alzheimer, CSA0225P

PRODUCT NOTE: Heat **AZOCARMINE B SOLUTION** in a 56° C waterbath to dissolve the fine needle shaped crystals that form during refrigerator storage.

PROCEDURE:

1. Deparaffinize slide with Xylene or Xylene Substitute and hydrate through alcohols.
2. Rinse slide in Distilled water.
3. Place slide in filtered 56° C **AZOCARMINE B SOLUTION** for 15 minutes.
4. Rinse slide in Distilled water.
5. Differentiate in **ANILINE ALCOHOL SOLUTION** until cytoplasm and connective tissue are pale pink and nuclei stand out sharply.
6. Control differentiation by rinsing slide in **ACETIC ALCOHOL SOLUTION**. If additional differentiation is needed, rinse slide in Distilled water and repeat **Step 4**.
7. Place slide in **PHOSPHOTUNGSTIC ACID SOLUTION** for 10 to 15 minutes.
8. Rinse slide in Distilled water.
9. Place slide in **ANILINE BLUE SOLUTION** for 10 to 15 minutes, or until the finest connective tissue fibers are clearly visible.
10. Rinse slide in Distilled water.
11. Dehydrate slide through 3 changes of Absolute Alcohol.
12. Clear slide through 3 changes of Xylene or Xylene Substitute.
13. Coverslip using a permanent mounting media.

RESULTS:

Chromatin, neuroglia, osteocytes: **RED**
Collagen and reticulum: **BLUE**
Cytoplasm: **PINK to BLUE**
Muscle: **RED to YELLOW**

REFERENCE: Sheehan DC Hrapchak BB: Theory and Practice of Histotechnology; 1980, 191.

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