

## **F-401, DANE'S METHOD FOR PREKERATIN, KERATIN AND MUCIN**

**Fixation:** 10% Buffered Neutral Formalin (F-113)

**Sections:** Paraffin @ 6 microns

**Staining:**

1. Deparaffinize and hydrate to distilled water.
2. Mayer's Hematoxylin (F-401-4) for 10 minutes. Blue in running tap water for 10 minutes. Rinse in distilled water.
3. Phloxine B Solution, 1% (F-401-1) for 3 minutes. Wash in running tap water to remove excess stain. Rinse in distilled water.
4. Alcian Blue (F-401-2) for 5 minutes. Wash in tap water for 2 minutes. Rinse in distilled water.
5. Orange G Solution (F-401-3) for 13 minutes.
6. Transfer slides to 95% alcohol, two changes, five dips each; absolute alcohol, two changes, fifteen dips each.
7. Clear in Xylene (C-120). Mount.

**Stain results:**

Acid Mucopolysaccharides	Blue
Prekeratin and Keratin	Orange to Red
Nuclei	Brown

**References:**

Dane, E. T. , and Herman, D.L.: Stain Techn., 38:97, 1963.  
AFIP Manual of Histological Staining Methods, 3<sup>rd</sup>., ed. L. Luna:  
New York: McGraw Hill Publications, c. 1968, p. 83.