

E-328 ALDEHYDE FUCHSIN METHOD. PH 1.0

Fixation: 10% Buffered Neutral Formalin (F-113) or fixative of choice.

Sections: Paraffin at 6 microns.

Staining:

1. Deparaffinize and hydrate to distilled water.
2. Rinse in several changes of **Alcohol, 80%-pH 1.0** (E-328-3)..
3. Stain in **Aldehyde Fuchsin Solution** (E-328-1) for 30 minutes.
4. Rinse off excess stain with **Alcohol, 80%-pH 1.0** (E-328-3).
5. Counterstain with **Metanil Yellow Solution** (E-328-2) until background is a light yellow (approximately 1 minute). Rinse in distilled water.
6. Dehydrate in 95% alcohol, absolute alcohol, and clear in xylene, two changes each.
7. Mount with **Permount** (M-18)

Results:

All mucins except the highly acidic sulfated mucosubstances are aldehyde fuchsin negative at pH values of 1.0 and below.

References:

Johnson, W.C., Graham, J.H., and Helwig, E.B., *J. Invest. Derm.*, 42:215-224, 1964.

Luna, L.G., (ed), Manual of Histologic Staining Methods of the AFIP, 3rd edition, McGraw-Hill, C1968, p 166.