

D-252 MAXIMOW'S METHOD **FOR BONE MARROW**

Fixation: Zenker-Formol

Sections: Paraffin at 6 microns.

Staining:

1. Deparaffinize and hydrate to distilled water.
2. **Mayer's Hematoxylin** (D-252-1) for 15 minutes. Wash in tepid tap water for 15 minutes.
3. Stain in working solution overnight. Prepare working solution fresh each time as follows.

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| <u>Eosin Y, 0.1%, Aqueous</u> (D-252-2) | 10 ml |
| Triple distilled water or <u>Phosphate Buffer</u> pH 6.8-7.0 (D-252-7) | 100 ml |
| <u>Azure II, 0.1%, Aqueous</u> (D-252-3) | 10 ml |
| Glacial Acetic Acid | 2 drops |
4. Differentiate in 95% alcohol until blue ceases to come out into alcohol and erythrocytes and collagen are pink.
5. Dehydrate in absolute alcohol, clear in **Xylene** (C-120), two changes each.
6. Mount with **Permount** (M-18).

Results:

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| Nuclei | Blue |
| Basophile leucocyte, mast cell granules | Purple to Violet |
| Cartilage | Purple |
| Erythrocytes, eosinophile granules | Pink |
| Cytoplasm | Blue to Pink |

References:

AFIP Manual of Histologic Staining Methods; 3rd edition, Ed. L. Luna: New York: McGraw Hill Publications, c. 1968, p. 120.

Mallory, F.B., Pathological Technique, New York, Hafner Publishing Co., 1961, p.196