Oil Red O Stain – Bob Schoonhoven, University of North Carolina

Oil Red O Stain for Glycol Methacrylate Sections

Staining Procedures For Plastic Embedded Tissue

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INDICATIONS:

Demonstrate lipids

SOLUTIONS:

60% aqueous triethyl phosphate

0.5%	Oil Red O solution
0.5g	Oil Red O (CI 26125
100.0ml	60% aqueous triethyl phosphate

Filter before use

Celestin Blue

0.5g	celestin blue B
100 ml	5% aqueous ferric ammonium sulfate

Boil gently 2-3 minutes; cool to room temperature; filter; and add 12 ml glycerol
Filter before use

PROCEDURE:
Rinse briefly in 60% triethyl phosphate
Stain 5-20 minutes in Oil Red O solution
Rinse 1-2 seconds in 60% triethyl phosphate
Rinse well in distilled water
Counterstain in Celestin Blue 15 minutes
Rinse well in distilled water
Mount in glycerin jelly or other water-soluble mount

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RESULTS:

lipids: red-orange
nuclei: blue

CITATION:

Feldman, A.T. and Dapson, R.W., "Relative Effectiveness of Various Solvents for Oil Red O," Medical Laboratory Technology, Vol. 31:335-341, 1974.

Disclaimer:

Energy Beam Sciences manufactures the JB-4 and JB-4A microtomes for sectioning plastic-embedded tissue, and sells GMA kits. Hematoxylin and Eosin stain is a good general stain for many types of tissue.

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