DAHL'S METHOD FOR CALCIUM

	5 1 1/6 B:
PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of calcium in tissue.
PRINCIPLE:	Alizarin Red S complexes with calcium in chelate reaction. A counterstain is used to contrast the Alizarin Red S.
CONTROL:	Any known calcium containing tissue
	Control Slides can be purchased from Histology Control Systems. See inside back cover, Item# cs010.
SPECIMEN PREPARATION:	Formalin or 95% Reagent Alcohol fixed, paraffin embedded sections cut at 6 micrometers
SOLUTIONS:	 Alizarin Red S 1% Aqueous Item# s2007 Alizarin Red Working Solution: Before using, add 5 mL of Ammonium Hydroxide 0.1% Aqueous per 45 mL of Alizarin Red S 1% Aqueous slowly with constant stirring. Resulting pH should be 6.36-6.40. Solution is stable for one month. Ammonium Hydroxide 0.1% Aqueous Item# s2006 Fast Green Substitute for Light Green 1% Aqueous Item# S230b Solutions can be purchased separately from Poly Scientific.
NOTES:	
REFERENCE:	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special Stains and Artifacts.</u> American Histolabs Inc. Gaithersburg, MD 1992. pp. 327-328.

STAINING PROCEDURE:

- Deparaffinize in 2 changes each of Xylene, Reagent Alcohol, and Reagent Alcohol 95% (Drain off excess 95% Alcohol).
- Stain in Alizarin Red S Working Solution for 5 minutes. 2.
- 3. Remove excess stain with distilled water, 5 or 6 rinses.
- Stain in Fast Green Substitute for Light Green 1% Aqueous for 30 seconds.
- 5. Rinse in distilled water for 5-10 seconds.
- Dehydrate in 95% Alcohol, Absolute Alcohol and clear in Xylene, 2 changes each. 6.
- Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.

RESULTS:

Background Pale Green

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