SWEAT-PUCHTLER METHOD FOR AMYLOID (SIRIUS RED)

PURPOSE:	For In Vitro Diagnostic Use: Intended for the qualitative demonstration of amyloid.	STAINING PROCEDURE:
		1. Deparaffinize and hydrate to distilled water.
PRINCIPLE:	Sirius Red has a highly selective affinity for amyloid. This is due to the beta-pleated arrangement of the amyloid and the planar shape of the Sirius Red molecule. The Sirius Red inserts itself in-between the pleats of the amyloid and is held by hydrogen bonding.	2. Mordant in Buffered Neutral Formalin overnight.
		3. Wash in water for 15 minutes.
		4. Alkaline Alcohol for Sweat-Puchtler for 1 hour.
		5. Rinse in distilled water for 10 seconds.
		6. Place slides in preheated Sirius Red 1% Aqueous in a 60°C oven for 90 minutes.
CONTROL:	Any tissue known to contain amyloid Control Slides can be purchased from Histology Control	7. Rinse briefly in Borate Buffer 0.1M pH 9.0 for 2 changes.
		8. Wash in running water for 5 minutes.
	Systems. See inside back cover, Item# cs001.	9. Mayer's Modified Hematoxylin for 5 minutes.
SPECIMEN PREPARATION:	Formalin fixed, paraffin embedded sections cut at 6 micrometers	10. Wash in running water for 5 minutes and then drain slides.
		11. Dehydrate rapidly in Absolute Alcohol and then clear in Xylene, 3 changes each.
		12. Mount with Poly Mount (Item# s2153) or any other acceptable mounting medium.
SOLUTIONS:	 Alkaline Alcohol for Sweat-Puchtler Item# s2088 Sirius Red 1% Aqueous Item# s274 Borate Buffer 0.1M pH 9.0 Item# s127D Mayer's Modified Hematoxylin Item# s216 Solutions can be purchased separately from Poly Scientific. 	
		RESULTS:
NOTES:		AmyloidPink to Red
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	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special</u>	AmyloidPink to Red NucleiBlue BackgroundUnstained
NOTES: REFERENCE:	Luna, Lee G. <u>Histopathologic Methods and Color Atlas of Special</u> Stains and Tissue Artifacts. American Histolabs Inc. Gaithersburg, MD. 1992. pp. 368-369.	AmyloidPink to Red

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