Xin Chen Lab⁵

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Oil red O staining

Edited by Lucy 05/23/12

Materials

- 1. Propylene glycol (kit included)
- 2. Oil red o stain (kit included)
- 3. Modified Mayer's Hematoxylin (kit included)
- 4. 10% Formalin
- 5. 85% Propylene glycol

OIL RED O STAIN KIT : American MasterTech item#KTORO

Procedure

- 1. Place frozen sections at RT 30min.
- 2. Preheat Oil Red O Stain to 60°C.
- 3. Place frozen sections in 10% Formalin for 2-5 minutes then rinse slide in tap water.(fixed slide may skip this



step)

- 4. Circle the tissue by Dako Pen.
- 5. Place slide in **Propylene glycol** for 2 minutes.
- 6. Place slide in **Oil Red O Stain** heated to 60°C for 6 minutes.
- 7. Differentiate tissue in **85% propylene glycol** solution for 1 minute.
- 8. Rinse slide through 2 changes of distilled water
- Place slide in Modified Mayer's Hematoxylin for 1 minute
- 10. Rinse slide through 2 changes of tap water
- 11. Rinse slide through 2 changes of distilled water
- 12. Coverslip using an aqueous mounting medium

Results

• Fat cells and neutral fat: RED

■ Nuclei: BLUE

1 of 2 3/14/2024, 11:58 AM

Links

- 1. https://www.ucsf.edu/
- 2. https://pharmacy.ucsf.edu
- 3. https://medschool.ucsf.edu

- 4. https://www.ucsfhealth.org/
- 5. https://pharm.ucsf.edu/xinchen

2 of 2