PATHOLOGY CORE

Thioflavine-S /Lipofuscin Autofluorescence Quenching Protocol

Stock solutions:

0.05% KMnO4/PBS 0.2% K₂S₂O₅/0.2% oxalic acid/PBS 40% EtOH/60%PBS 50% EtOH/50% PBS

- 1. Deparaffinize sections and hydrate to DH₂O
- 2. If tissue is EtOH fixed, immerse in NBF for 1 hour followed by a 10 minute rinse in tap H_2O . If fixed in NBF go to step 3
- 3. Immerse in PBS 5 min.
- 4. Immerse in 0.05% KMnO4/PBS 20 min.
- 5. Rinse in PBS 2 X 2 min.
- 6. Destain in 0.2% K₂S₂O₅/0.2% oxalic acid/PBS until brown color has been removed from sections (approximately 1 min).
- 7. Rinse in PBS 3 X 2 min.
- 8. Immerse in freshly made 0.0125% thioflavine-S/40%EtOH/60%PBS 3 min. in dark (use green boat).
- 9. Differentiate in 50%EtOH/50%PBS for 10-15 min (green boat).
- 10. Rinse in PBS 3 X 5 min (green boat).
- 11. Rinse in DH₂0 5 min (green boat).
- 12. Coverslip with aqueous anti-fade medium (Vectashield) and seal edges with nail polish.

