

Toluidine blue staining for brain slice cryosections

Make the 0.2M Walpole buffer, pH 4.45

1. make 200 ml 0.2M acetic acid: 2.4ml acetic acid in 200ml water
 2. make 100 ml 0.2 M sodium acetate: 2.75 g sodium acetate in 100 ml water
- Mix 120ml 0.2M acetic acid with 80 ml sodium acetate

pH with either 1. or 2. to pH=4.45

Make 0.1% toluidine blue dye solution

Weight 0.1g dye and dissolve in 100ml water

Make dye working solution

Add 10 ml 0.1% dye solution to 50 ml Walpole buffer

Staining sections:

Dip the dried sections on slides in water for 2 min

Dip in the dye working solution for 2-5 min

Transfer to 70% ethanol, wash for 10 seconds

Transfer to 95% ethanol, wash for 10 seconds

Transfer to 100% ethanol, wash for 10 seconds

Dry slides

Dip in xylene for 5min to clear

Mounting coverslips with DPX mounting medium.