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# Congo Red Immunostaining

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**Protocol status:** Working
**We use this protocol and it's working**

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## Abstract

Staining for amyloid structures in protein aggregates

## Troubleshooting

1 Wash freshly sectioned tissues 2-3 times with 1X PBS to remove OCT.

2 Mount all sections onto microscope slides and dry at Room temperature 00:00:00 .

3 Transfer slides into a 1% CongoRed solution for 00:30:00 . 30m

4 Place slides into alkaline bath (1% Sodium hydroxide in 50% ethanol) for 00:05:00 . 5m

5 Transfer slides into 3 sequential baths of water to remove excess staining.

6 Transfer slides into 0.4% Toluidine blue solution for 00:10:00 . 10m

7 Wash slides in 3 sequential bath of water to remove excess staining.

8 Finally, dehydrate slides using sequential baths of: 13m

1. distilled water (~ 00:02:00 )
2. 70% ethanol (2 times ~ 00:02:00 )
3. 95% ethanol (2 times ~ 00:02:00 )
4. 100% ethanol (2 times ~ 00:02:00 )
5. 10% xylene (2 times ~ 00:05:00 )

9 Dry sections at room temperature (~ 00:05:00 ). 5m

10 Cover with DPX mounting medium.