



Feb 07, 2024

Congo Red Immunostaining

DOI

dx.doi.org/10.17504/protocols.io.4r3l22k1jl1y/v1

daniel.dautan daniel^{1,2}, Per Svenningsson^{1,2}

¹Department of Clinical Neuroscience, Karolinska Institutet, 171 76 Stockholm, Sweden;

²Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, MD 20815, USA



Jacquelyn Haytayan

Weill Cornell Medicine

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.4r3l22k1jl1y/v1>

Protocol Citation: daniel.dautan daniel, Per Svenningsson 2024. Congo Red Immunostaining. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.4r3l22k1jl1y/v1>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working



Created: February 07, 2024

Last Modified: September 23, 2024

Protocol Integer ID: 94867

Keywords: ASAPCRN, congo red immunostaining staining for amyloid structure, amyloid structure, congo red immunostaining staining, protein aggregate, protein

Funders Acknowledgements:

Aligning Science Across Parkinson's

Grant ID: 020608

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.