

DEC 07, 2023

OPEN ACCESS



DOI:
dx.doi.org/10.17504/protocols.io.x54v9pd7pg3e/v1

Protocol Citation: Toby J Curless, Hemanth Ramesh Nelvagal, Zane Jaunmuktane 2023. Luminescent Conjugated Oligothiophenes (LCO) Staining. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.x54v9pd7pg3e/v1>

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

Created: Aug 07, 2023

🌐 Luminescent Conjugated Oligothiophenes (LCO) Staining

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ABSTRACT

The protocol describes Luminescent Conjugated Oligothiophenes staining on brain sections.

MATERIALS

- 100 % ethanol
- Coverslips
- DEPC H2O
- Epifluorescence microscope (Leica) using FITC filters
- Humidified chamber for 30 mins
- Hydromount™ aqueous non-fluorescing mounting media (National Diagnostics)
- Hydrophobic ImmEdge™ PAP pen (Vector laboratories)
- PBS
- pFTAA solution (diluted in PBS).
- Xylene

Last Modified: Dec 07, 2023

SAFETY WARNINGS

PROTOCOL integer ID: 86046

Keywords: ASAPCRN, Luminescent Conjugated Oligothiophenes, Brain sections

Funders
Acknowledgement:
The Michael J. Fox Foundation for Parkinson’s Research (MJFF) and the Aligning Science Across Parkinson’s (ASAP) Initiative
Grant ID: ASAP-000478

! Breathing in xylene vapours in the air can cause irritation to the eyes, nose and throat and it can cause irritation, redness and swelling to the skin or eyes; and headaches, dizziness, vertigo and drowsiness. Please work to your institution approved health & safety policies, risk assessments and local procedures for the safe use, storage and disposal of xylene. Refer to the data safety sheet.

Preparation

- 1
- Generate tissue sections using standard microtome sectioning protocols.
- 2
- Heat tissue dry tissue sections for

🕒 01:00:00

 at

🌡️ 60 °C

1h

Deparaffinisation and LCO Staining

45m




- 3
-
- 15m



Safety information

Please refer to the Xylene Data Safety Sheet and follow local approved risk assessments and protocols for safe handling and disposal of xylene.

Hazard pictograms



De-paraffinise sections by  00:05:00 washes in xylene (x2),  00:05:00 100 % ethanol (x2) and  00:05:00 in DEPC H₂O (x1).

- 4 Circle tissue on slide using a hydrophobic ImmEdgeTM PAP pen (Vector laboratories) to contain solution.
- 5 Prepare 1:500 pFTAA solution (diluted in PBS). **All steps from here should be performed away from light.**
- 6 Pipette pFTAA solution onto tissue and incubate at room temperature in a humidified chamber for  00:30:00 mins. 
- 7 Wash slides in PBS 3x.

8 Coverslip slides using Hydromount™ aqueous non-fluorescing mounting media (National Diagnostics).