



Jun 17, 2024

Hematoxylin and Eosin (H&E) Staining

DOI

dx.doi.org/10.17504/protocols.io.ewov19deklr2/v1

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DOI: **dx.doi.org/10.17504/protocols.io.ewov19deklr2/v1**

Protocol Citation: Núria Peñuelas, Ariadna Laguna, Miquel Vila 2024. Hematoxylin and Eosin (H&E) Staining. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.ewov19deklr2/v1>

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Protocol status: Working

We use this protocol and it's working

Created: June 17, 2024

Last Modified: June 17, 2024

Protocol Integer ID: 101945

Abstract

Hematoxylin and Eosin (H&E) Staining for histological sections



DEPARAFFINIZE

- 1 Xylene - 5 minutes
- 2 Xylene - 6 quick immersions

HYDRATE

- 3 100° alcohol - 6 quick immersions
- 4 100° alcohol - 6 quick immersions
- 5 96° alcohol - 6 quick immersions
- 6 70° alcohol - 6 quick immersions
- 7 50° alcohol - 6 quick immersions
- 8 Distilled water (H₂O) - 2 minutes

STAINING

- 9 Harris Hematoxylin - according to preparation
- 10 Running tap water (H₂O) - 5 minutes

DIFFERENTIATE HEMATOXYLIN



11 Acid alcohol - 2 minutes. Acid alcohol is made by adding 0.3 ml of HCl to 250 ml of 70° alcohol.

12 Running tap water (H₂O) - 5 minutes

BLUEING

13 NaHCO₃ - 1 minute. Add one tablespoon of NaHCO₃ to 250 ml of distilled water (H₂O).

14 Running tap water (H₂O) - 5 minutes

COUNTERSTAINING

15 96° alcohol - 3 minutes.

16 Eosin - according to preparation

DEHYDRATE

17 96° alcohol - 6 quick immersions

18 96° alcohol - 6 quick immersions

19 100° alcohol - 6 quick immersions

20 100° alcohol - 6 quick immersions

CLEAR



21 Xylene - until the preparations are clear. Leave in xylene until mounting.