



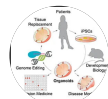
SEP 08, 2023

Deparaffinization for tissue and organoids

Gabriela Vallejo
Flores¹,

Annika
Fendler¹

¹Charite



Gabriela Vallejo Flores

ABSTRACT

This protocol is to withdraw the paraffin from formalin-fixed paraffin-embedded tissue and organoids and to recover the protein structure of your sample.

GUIDELINES

Before start the experiment prepare the following solutions;

- TBS 1x
- Sodium citrate buffer (10 mM Sodium citrate, 0.05% Tween 20, pH 6.0)

Tri-sodium citrate (dihydrate) 2.94 g

Distilled water 1 L

Mix to dissolve. Adjust pH to 6.0 with 1N HCl

Add 0.5 mL Tween 20 and mix well. Store at room temperature for 3 months or at 4°C for longer storage

- Tris-EDTA buffer (10 mM Tris base, 1 mM EDTA solution, 0.05% Tween 20, pH 9.0)

Tris 1.21 g

EDTA 0.37 g

Distilled water 1 L

Mix to dissolve. Adjust pH to 9.0.

Add 0.5 mL of Tween 20 and mix well.

Store at room temperature for 3 months or at 4°C for longer storage

- 96% ETOH
- 80% ETOH
- 70% ETOH

OPEN ACCESS



Protocol Citation: Gabriela Vallejo Flores, Annika Fendler 2023. Deparaffinization for tissue and organoids .

protocols.io

<https://protocols.io/view/depaffinization-for-tissue-and-organoids-cyz7xx9n>

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: In development
We are still developing and optimizing this protocol






Created: Aug 22, 2023

Last Modified: Sep 08, 2023

PROTOCOL integer ID:
86815

Keywords: Deparaffination, Bladder, Tissue, Organoids

MATERIALS

-  TBS 7.6, 100 unit(s), plastic Roth Catalog #1244.2
-  Sodium citrate tribasic dihydrate Merck MilliporeSigma (Sigma-Aldrich) Catalog #C8532
-  Tween® 20 Serva, Germany Catalog #37470
-  Trizma® base Merck MilliporeSigma (Sigma-Aldrich) Catalog #T6066
-  Ethylenediamine tetraacetic acid disodium salt dihydrate, 250 g Roth Catalog #8043.1
- Xylene
- Abs. ETOH
- 96% ETOH
- 80% ETOH
- 70% ETOH
- Distilled water
- Glass staining dish with cover
- Steamer
- Cook heater
- Stainless steel rack

BEFORE START INSTRUCTIONS

- Prepare the steamer and the cook heater for boiling the samples into the antigen retrieval solution
- Fill the Glass bucket with the solutions on step 1

Deparaffinization

1

Incubation time	Solution	Immersion in the bucket
10 min	Xylene	

Incubation time	Solution	Immersion in the bucket
10 min	Xylene	
30 sec	100% EtOH	6 times
30 sec	100% EtOH	6 times
30 sec	100% EtOH	6 times
30 sec	96% EtOH	6 times
30 sec	80% EtOH	6 times
30 sec	70% EtOH	6 times
2 min	Distilled water	

Antigen retrieval solution

- 2 Transfer the slide into the antigen retrieval solution in the steamer, turn on the cook heater and incubate 5 min after the valve is up, turn off the cook heater and wait till the valve get down again.
- 3 Immerse the steamer in running water for 5 min to help the steamer get cooler, open the steamer and add running water to the slides during one min.
- 4 Transfer the slides into destillated water, now the slides are ready for immunostaining.

5

Note

Observations: