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• Organoids dehydration and Organoids embedding in paraffin

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ABSTRACT

This protocol is for Organoids dehydration and Organoids embedding adapted from Fendler, A., et al. Research Square (2020).

GUIDELINES

Before starting the protocol, prepare the following solutions:

- 80% EtOH
- 90% EtOH
- 96% EtOH

MATERIALS

- 80% EtOH
- 90% EtOH
- 96% EtOH
- 100% EtOH
- Xylene
- Paraffin
- Glass staining dish with cover
- Stainless steel rack
- Microtome
- oven

BEFORE START INSTRUCTIONS

- Melt the paraffin at 65 °C during 3-6 hrs in the owen.
- Fill the Glass bucket with the solutions on step 1.
- During the first parafifn incubation time turn on the cooling plate.

OPEN ACCESS



Protocol Citation: Gabriela Vallejo Flores, Annika Fendler 2023. Organoids dehydration and Organoids embedding in paraffin. protocols.io https://protocols.io/view/organoids-dehydration-and-organoids-embedding-in-p-cy3xxypn

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Protocol status: In development

We are still developing and optimizing this protocol

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PROTOCOL integer ID:

86871

Dehydration

1 Table 1. Dehydration steps of organoids in agarose beads

Incubation Time	Solution	С	D
30 min	80% EtOH		
30 min	90% EtOH		
1 hr	96% EtOH		
1hr	100% EtOH		
30 min	100% EtOH		
1h	Xylene		
30 min	Xylene		
1-3h	Paraffin		
Over night	Paraffin		
1h	Paraffin		

Table 1.

Embedding

- With a forceps, carefully transfer the agarose block into a paraffin embedding jar (metal)
- 3 Carefully add molten Paraffin (65°C), let stand for at least 2 min at 65°C to ensure penetration of paraffin into the agarose block
- 4 Transfer the embedded jar to a cooling plate, and place the plastic embedding cassette on top on the embedding jar (metal), Incubate for 1h to get solid.

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Note

After embedding in paraffin, section the paraffin-embedded organoids using a microtome at 5 μ m thickness with a water bath at a temperature of 48°C. Quickly transfer the sections onto glass slides to prevent the agarose from dissolving. Let the slides dry for 1 hr at 37°C.

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Note

Observation: