

Sep 05, 2017

Sample embedding with epoxy resin

DOI

<https://dx.doi.org/10.17504/protocols.io.jqvcmw6>

Debora Ferreira Barreto-Vieira¹, Fernanda Cunha Jácome¹, Marcos Alexandre Nunes da Silva¹, Gabriela Cardoso Caldas¹, Elen Mello de Souza¹, Audrien Alves Andrade¹, Ortrud Monika Barth.¹

¹Morphology and Morphogenesis Laboratory, Instituto Oswaldo Cruz, Fundação Oswaldo Cruz



Debora Vieira

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.jqvcmw6>

Protocol Citation: Debora Ferreira Barreto-Vieira, Fernanda Cunha Jácome, Marcos Alexandre Nunes da Silva, Gabriela Cardoso Caldas, Elen Mello de Souza, Audrien Alves Andrade, Ortrud Monika Barth. 2017. Sample embedding with epoxy resin. [protocols.io https://dx.doi.org/10.17504/protocols.io.jqvcmw6](https://dx.doi.org/10.17504/protocols.io.jqvcmw6)

Manuscript citation:

PONE-D-17-15841R2, DOI: 10.1371/journal.pone.0184397

Debora Ferreira Barreto-Vieira (BRAZIL): "Structural investigation of C6/36 and Vero cell cultures infected with a Brazilian Zika virus."

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

Created: September 05, 2017

Last Modified: February 20, 2018

Protocol Integer ID: 7669

Keywords: epoxy resin, sample embedding , sample

Attachments



Sample embedding wit...

12KB

- 1 Wash previously fixed cells in sodium cacodylate buffer 0,2M in saccharose 7% for 5 minutes (3 times).
- 2 Postfix cells in osmium tetroxide 1% for 30 minutes.
- 3 Wash cells in sodium cacodylate buffer 0,2M in saccharose 7% for 5 minutes (1 time) and in distilled water for 10 minutes (2 times).
- 4 Dehydrate cells by immersing the material in graduated solutions of acetone as follows: acetone 15%, 30% and 50% (10 minutes each), acetone 70% in uranyl acetate 1% (30 minutes), acetone 90% (5 minutes) and acetone 100% in copper sulfate (2 times for 10 minutes).
- 5 Infiltrate cells by immersing the material in epoxi resin at a 1:3 ratio of acetone P.A. for 30 minutes and at 3:1 ratio of acetone P.A overnight.
- 6 Embed cells by adding epoxi resin to the eppendorfs containing the cells. Polymerization occurs at 60°C during three days.