

Resource Summary Report

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Using a Peristaltic Pump to Flow Buffer Through a Nanoporous Membrane in Filter Holder Assembly

DOI:10.17504/protocols.io.rwqd7dw

Type: Protocol

Proper Citation

Harley King 2020. Using a Peristaltic Pump to Flow Buffer Through a Nanoporous Membrane in Filter Holder Assembly. protocols.io
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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.rwqd7dw>

Authors: Harley King

Summary: This protocol provides steps for seating and flowing liquid through a 50 ?m, 13mm round membrane containing a hexagonal arrangement of 25nm pores with lattice constant 65nm using a peristaltic pump. Porous, alumina membranes are fragile and pressure is required to pass buffer through the 25nm pores. A peristaltic pump at a low flow rate reproducibly hydrates membranes compared to syringe-based assemblies. Steps in this protocol minimize membrane breaks and damage during membrane placement in the filter adapter assembly, liquid flow through the membrane and membrane retrieval.

Affiliations: LuminUltra

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