



Extruder Kits

Our lipids expertise is only the beginning,
Discover the difference

The Avanti Research Mini-Extruder

Convenient

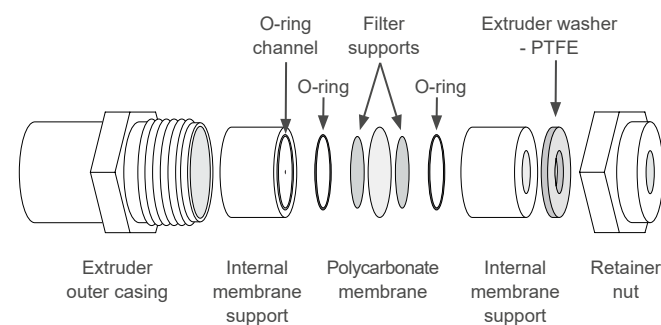
- Prepare small or large, unilamellar vesicles (SUVs or GUVs) by extrusion in an easy, rapid, & efficient manner
- Design allows for the rapid cleaning of all wetted parts, reducing down-time between production of vesicles from batch to batch.
- Generate uniform populations of unilamellar vesicles without the use of solvents or detergents
- Vesicle size readily controlled by polycarbonate membrane selection

Affordable

- Available for a fraction of the cost of a larger extruder
- All replacement parts and accessories are available from Avanti
- Complete set includes:
 - Mini-extruder
 - Heating block/holder
 - 2-Gas Tight Syringes (1000uL)
 - 2 O-rings
 - 100 polycarbonate membranes (0.1µm)
 - 100 Polyester filter supports

Flexible

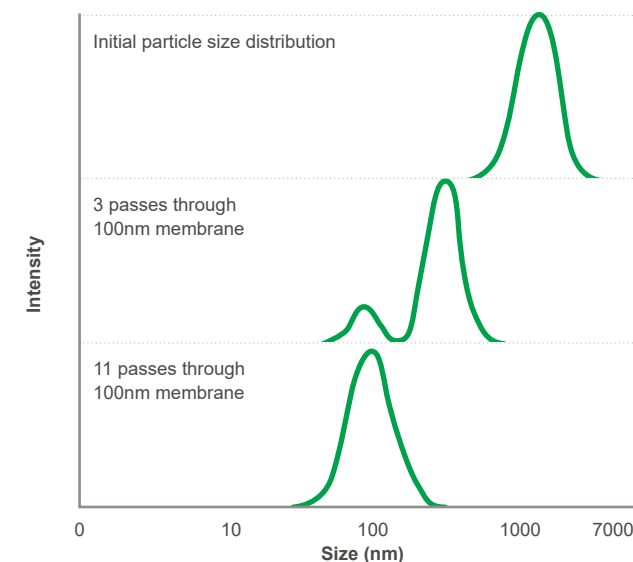
- Optional heating block allows the extrusion of vesicles at elevated temperatures, which is critical for the successful production of vesicles from phospholipids with a phase transition temperature above room temperature
- Generate unilamellar vesicles ranging from 30nm – 1µm when assembled with appropriate polycarbonate membrane
- Useful for a wide variety of lipid compositions
- Interchangeable with 250µL & 1000µL syringes



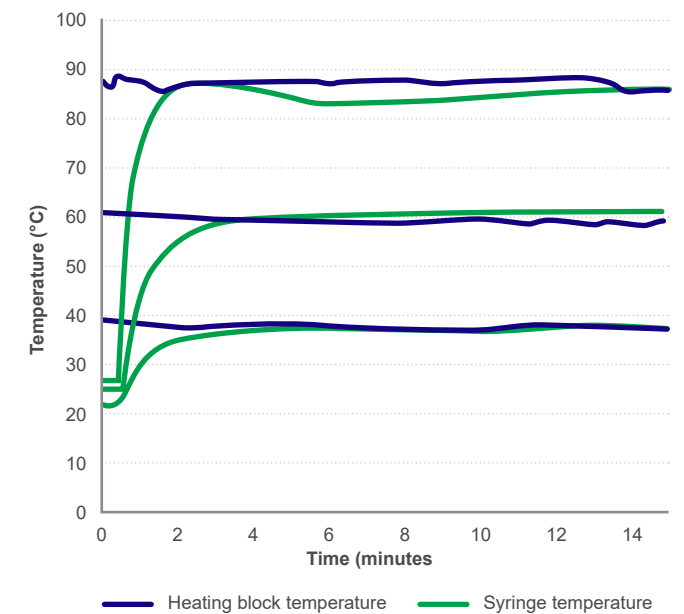
Reliable

The particle size distribution of unilamellar vesicles prepared by extrusion is a function of the number of passes through the extruder membrane.

Hydrated lipid films will initially form large, multi-lamellar vesicles. After the initial pass through a membrane, the particle size distribution will tend towards bimodal. After sufficient passes through the membrane, a unimodal, normal distribution is obtained. A minimum of eleven passes through the extruder membrane is recommended for most lipids.



Placing the heating block assembly on a hot plate achieves rapid temperature control for lipids that have transition temperatures above room temperature.





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Non-warranty

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