

Manual Liposome Extruder

Liposome | Lipopolyplex | Small-Volume Formulation | Manual Extrusion | Temperature Control Available

Unique Benefits

The Genizer HandExtruder is designed for small-volume liposome and lipopolyplex extrusion. The sample is passed back and forth between two gas-tight syringes through a membrane with a defined pore size. Repeated extrusion helps reduce particle size and improve size uniformity. Typically, 5-10 passes are sufficient, depending on the formulation and membrane pore size.

- **Sanitary Construction:** 316L stainless steel construction with sanitary-grade materials.
- **Low Dead Volume:** Designed for small-volume samples with a minimum sample size of 0.25 mL.
- **Easy to Clean and Sterilize:** Easy to disassemble and clean; the whole unit is autoclavable.



The HandExtruder is a manually operated extruder designed for small-volume liposome formulation and extrusion. Homogeneous samples can typically be obtained after 5-10 passes, depending on the formulation and membrane pore size. Its minimal dead volume, simple operation, easy cleaning, and autoclavable design make it suitable for small-volume formulation work.

Specifications

Catalog No.	HandExtruder-1mL	HandExtruder-1mL-RT
Sample Size	1 mL	1 mL
Cooling	No	Yes
Dimensions	14 cm × 23 cm × 7 cm	14 cm × 23 cm × 7 cm
Weight	2 kg	2 kg
Min. Sample Size	0.25 mL	
Max. Pressure	200 psi	
Max. Temperature	80 °C (176 °F)	
Power Type	Manual	
Cleaning	Disassemble, rinse, clean and dry	
Sterilization	Whole unit autoclavable	



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https://www.genizer.com/liposome-handextruder_p0006.html

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Standard Features

Parts	Liposome HandExtruder
Feed Reservoir	1.0 mL gas-tight syringe
Filter Plate	316L stainless steel
Liposome Membrane	Sold separately
Product Material	316L stainless steel, Viton, silicone
Material Standard	Sanitary grade
Warranty	Standard 1-year warranty

Optional Features

Feed Reservoir	2.5 mL gas-tight syringe
Liposome Membrane	30, 50, 80, 100, 200, 400, 800, and 1000 nm; 2, 5, 10, 20, and 30 μm ; 19 mm track-etched membrane
Extended Plunger Handle	Improved comfort during reciprocating operation
Hose	For supplying water to the jacket during water bath heating

