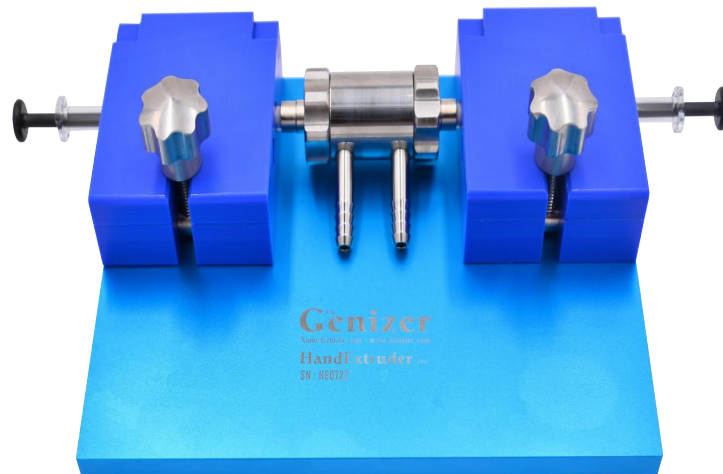


# High Pressure Hand Driven Liposome Extruder

Liposome | Lipopolyplex | Sterile Filtration | Lab | Pilot | Manufacture

## Unique Benefits

The Genizer Extruder is designed to produce unilamellar populations of liposomes and lipopolyplex by the extrusion of a multilamellar liposome suspension. A multilamellar sample is forced repeatedly through polycarbonate filters with a defined pore size, and the smaller liposome 50nm-120nm with homogeneous size is produced.



- **Sanitary:** 316L Stainless Steel
- **Efficient:** micron pore supporting maximize the pressure and lower the contamination
- **Compatibility:** GMP and FDA compliant

The HandExtruder is a manually powered extruder designed for use with small samples. The sample is passed back through the membrane by pushing the sample back and forth between two syringes. Homogenous samples can be produced quickly and easily in minutes; typically 5-10 passes are sufficient to produce a sample with uniform liposome size. The HandExtruder is virtually no dead-volume and easily cleaned and suitable for sterilization.

## Specifications

Catalog No.	HandExtruder™-1ml	HandExtruder™-1ml-RT
Description	Liposome Hand Extruder	Liposome Hand Extruder with Thermo-Jacket
Cooling	None	Yes
Dimensions	23cm×17cm×13cm	23cm×17cm×13cm
Weight	2kg	2kg
Application	Liposome formulation	Lipids with high transition Temp. or heat sensitive
Min. Sample Size		0.25ml
Max. Pressure		150psi
Max. Temperature		80 °C (176 °F)
Power Type		Hand Drive
Nano-membrane		19mm polycarbonate membrane
Cleaning		Flush to clean; Whole unit autoclavable



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[http://www.genizer.com/liposome-handextruder\\_p0006.html](http://www.genizer.com/liposome-handextruder_p0006.html)

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# High Pressure Hand Driven Liposome Extruder



HnadExtruder-RT  
(Packed with Genizer Box)

## Standard Features

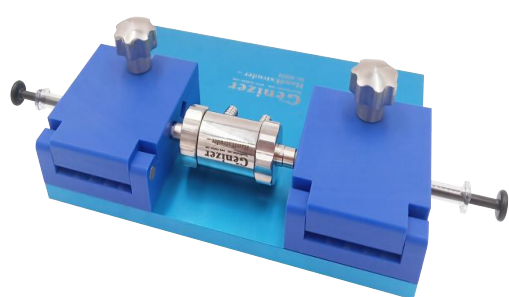
Parts	1) Liposome HandExtruder 2) 10 pieces of 100nm membrane
Feed Reservoir	1.0 ml gas-tight syringe
Collector Reservoir	1.0 ml gas-tight syringe
Nano membrane	100nm 19mm track-etched polycarbonate membranes
Compatibility	Parts are compatible with Liposofast in Avestin
Product material	316L stainless steel Viton
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects



Track-Etched Liposome Membranes  
(19mm)

## Available Option

Parts	Stabilizer holder for Hand Extruder
Feed Reservoir	0.25/0.5/1.0/2.5ml gas tight syringe
Collector Reservoir	0.25/0.5/1.0/2.5ml gas tight syringe
Nano membrane	30, 50, 80, 100, 200, 400, 800nm, 1000nm, 2µm, 5µm, 10µm, 20µm, 30µm 19mm track-etched membrane
Syringe Type	Gas-tight syringe with Protective Film



Back-Side

