

High Pressure 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
- **Compatible:** Tri-clamp, NPT, UNF, Flange and custom fittings are available
- **Efficient:** micron pore supporting maximize the pressure and lower the contamination
- **Compatibility:** GMP and FDA compliant



10ml Jacketed Liposome Extruder with
Track-Etched Membrane

Scale	Catalog No.	Maximum Pressure	Dimension L×W×H(cm)/Weight(kg)	Membrane Selection
Test Scale 1-100mL	HandExtruder-1ml-RT	150 psi	23×17×33/2 (jacketed)	30 nm
	HandExtruder-1ml		23×17×13/2	
	GExtruder-10ml	3,000 psi	23×13×25/4 (jacketed)	50 nm
	GExtruder-5ml/min		10×10×8/1	
	GExtruder-100ml		23×20×32/7 (jacketed)	80 nm
Pilot Scale 200-3000mL	GExtruder-50ml/min	3,000 psi	12.5×12.5×9/2	
	GExtruder-800ml		25×25×37/20 (jacketed)	100 nm
	GExtruder-400ml/min	3,000 psi	18×18×10/5	
	GExtruder-3000ml		30×25×55/45 (jacketed)	200 nm
Production 3-10L	GExtruder-1500ml/min	3,000 psi	30×25×25/21	
	GExtruder-10000ml		45×40×65/130 (jacketed)	400 nm
Customize 10L-50L	GExtruder-5000ml/min	up to 5,000 psi	45×40×30/90	
	GExtruder 1-50000ml or Multi-Extruder		TBD (jacketed) TBD	800 nm



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High Pressure Liposome Extruder



Hand Extruder



Jacketed Extruder



Online Extruder

Standard Features

Surfacing	Electro-polish and inner Passivation
Application	Liposome Lipopolyplex Sterile Filtration Lab Pilot Manufacture
Inlet type	1/2" or 1" Tri-Clamp or 9/16UNF
Outlet type	1/2" or 1" Tri-Clamp or 9/16UNF
Feed Reservoir	SUS316 Cylinder or Online
Collector Reservoir	SUS316 Cylinder or Online
Product material	316L stainless steel
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

Parts	Tri-clamp, NPT, UNF, Flange and custom fittings are available
Customer	Customer size for larger flow rate
Detector	Pressure gauge, Pressure and Temp. transducer
Outlet type	NPT, UNF, Flange and custom fittings are available
Feed Reservoir	100ml, 200ml, 500ml, 1000ml Syringe, Cylinder
Collector Reservoir	or Online
Product material	Titanium (Resistant to strong acid and base)



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