

LIPEX® Thermobarrel Extruder Packages

PRODUCT DESCRIPTION

The LIPEX® Thermobarrel Extruders are the industry-standard bench-top extruders for initial development in both academia and industry. The units are designed to produce a homogenous population of large unilamellar vesicles from a non-homogenous population of multi-lamellar vesicles. The unilamellar vesicles are formed by utilizing a constant pressure force of between 100 and 800 psi to force the vesicles through filters of a predefined pore size. These units have a maximum operating pressure and temperature of 850 psi and 80 °C, respectively. The side wall of the thermobarrel is jacketed to provide temperature control of the extruder.

PACKAGE CONTENTS

- (1x) LIPEX® Thermobarrel Extruder
- (1x) Package of polyester drain discs (100/pack)
- (1x) Package of polycarbonate filters with 100 nm pore size (100/pack)
- (1x) Spare O-ring set
- (1x) High pressure nitrogen line
- (1x) Turnover Package USB
 - Operating Manual
 - Declaration of Conformity
 - Certificate of Inspection & Testing

TECHNICAL SPECIFICATIONS

LIPEX® Model	1.5 mL	10 mL	100 mL	800 mL
MAOP*				
• psig	850	850	850	850
• bar	58.6	58.6	58.6	58.6
MAOT (°C)**	80	80	80	80
Min. Extrusion Volume	0.9 mL	1 mL	20 mL	100 mL
Max. Extrusion Volume	1.5 mL	10 mL	100 mL	800 mL
Weight (kg)	3.0	2.9	12.3	18.9
Material				
• Body	316 L Stainless Steel			
• O-Ring	Buna			
Surface Finish	Mechanically Finished			



* MAOP = Maximum Allowable Operating Pressure

** MAOT = Maximum Allowable Operating Temperature

REQUIRED ANCILLARY EQUIPMENT/SUPPLIES

The following is a general list of ancillary equipment/materials required for the operation of the extruder

- polyester drain disk
- polycarbonate filter
- heated re-circulator
- high pressure gas cylinder (nitrogen)
- gas regulator with a minimum delivery pressure of 1500 psi

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