

Materials List for:

# Manufacture of Concentrated, Lipid-based Oxygen Microbubble Emulsions by High Shear Homogenization and Serial Concentration

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## Materials

Name	Company	Catalog Number	Comments
1,2-distearoyl- <i>sn</i> -glycero-3-phosphocholine (DSPC)	Avanti Polar Lipids	770365	Alternate product: non-GMP from NOF America (Coatsome MC-8080)
Cholesterol	Sigma Aldrich	C75209	
Plasma-Lyte A	VWR	80089-818	Alternatively can use NaCl
Glass collection vessel	Specialty Glass, Inc.	Custom	Contact: Pam Zurbrick - 281-595-2210
Gas composition (oxygen) monitor	Precision Medical	PM5900L	
Sarns 8000 roller pump	Calicut Medical	16407	Part of a modular perfusion system
BIOtherm Heat Exchanger	Medtronic	ECMOtherm-II	
Verso laboratory in-line mixer	Silverson Machines, Inc	TH-IL-102-VERSO	Use multistage workheads and front-end extension with T piece
T-piece for Silverson Verso inlet port	Process Innovations	Custom	Contact: Brian Leavitt - 508-423-2266
L5M-A laboratory mixer	Silverson Machines, Inc	NC0136483	Use mesh emulsor screen (fine)
Rochester-Ochsner toothed forceps	Fisher Scientific	13-812-18	
140 ml syringe	Kendall Healthcare Monoject	8881114030	Ensure there is a luer lock.
IX71 Inverted light microscope	Olympus	IX71	
Retiga-2000R microscope camera	QImaging	RET-2000R-F-M-12	
Accusizer 780A Autodilution	PSS-NICOMP Particle Sizing Systems	Out of production	