

Materials List for:

# Quantitative and Temporal Control of Oxygen Microenvironment at the Single Islet Level

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## Materials

Name	Company	Catalog Number	Comments
<b>Reagent/Material</b>			
Spinner	Laurell	WS-400	
SU8	MicroChem	SU8-2150/SU8-2100	
Digital Hotplate	PMC Dataplate	722A	
UV Curing Lamp	OmniCure	S1000	
PMDS	Dow Chemical	Sylgard 184	
Corona Wand	ETP	BD-20AC	
Vacuum Chamber	Bel-Art	420220000	
Microdispensers	The Lee Company	IKTX0322000A	
5 V and 20 V DC Power	Radio Shack		
NI USB	National Instrument	NI USB-6501	
Thermometer	Omega Engineering, Inc.		
Peristaltic Pump	Gilson	Minipulse 2	
Oxygen Sensor	Ocean Optics	NeoFox	
Fraction Collector	Gilson	203	
Pipette	Fisher Scientific	Finnpipette II 100µl	
Inverted Epifluorescence Microscope	Leica	DMI 4000B	
50 ml Conical Tubes	Fisher Scientific		
Fura-2 Fluorescence Dye	Molecular Probes, Life Technologies		
Rhodamine 123 Fluorescence Dye	Molecular Probes, Life Technologies		
Culture Media	Sigma-Aldrich	RPMI-1640	
HEPES	Sigma-Aldrich		
Glucose	Sigma-Aldrich		
Bovine Serum Albumin	Sigma-Aldrich		
30 in Silicone Tubings	Cole-Parmer		1/16 in x 1/8 in
1.5 ml Eppendorf Tubes	Fisher Scientific		
Y-connectors	Cole-Parmer		1/16 in and 4 mm
Syringe Connectors	Cole-Parmer		female Luer plug 1/16 in
Straight Connectors	Cole-Parmer		1/16 in
Elbow Connector	Cole-Parmer		1/16 in