

Materials List for:

Lab-on-a-CD Platform for Generating Multicellular Three-dimensional Spheroids

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Materials

Name	Company	Catalog Number	Comments
3D printer	Cubicon	3DP-210F	
Adipose-derived mesenchymal stem cells (hASC)	ATCC	PCS-500-011	
Antibiotic-Antimycotic	Gibco	15240-062	Contained 1% of completed medium and buffer
CellTracker Green CMFDA	Thermo Fisher Scientific	C2925	10 mM
CellTracker Red CMTPX	Thermo Fisher Scientific	C34552	10 mM
Computer numerical control (CNC) rotary engraver	Roland DGA	EGX-350	
DC motor	Nurielectricity Inc.	MB-4385E	
Dimethylsulfoxide (DMSO)	Sigma Aldrich	D2650	
Dulbecco's modified eagle's medium (DMEM)	ATCC	30-2002	
Dulbecco's phosphate buffered saline (D-PBS)	ATCC	30-2200	
Fetal bovine serum	ATCC	30-2020	Contained 10% of completed medium
human lung fibroblasts (MRC-5)	ATCC	CCL-171	
Inventor 2019	Autodesk		3D computer-aided design program
Petri dish Φ 150 mm	JetBiofill	CAD010150	Surface Treated
Plasma cleaner	Harrick Plasma	PDC-32G	
Pluronic F-127	Sigma Aldrich	11/6/9003	Dilute with phosphate buffered saline to 4% (w/v) solution
Polycarbonate (PC)	Acrymall	AC15PC	200 x 200 x 15 mm
Polydimethylsiloxane (PDMS)	Dowcorning	Sylgard 184	
Trypsin	Gibco	12604021	