

Materials List for

Semi-Automated Phenotypic Analysis of Functional 3D Spheroid Cell Cultures

Stephanie Stransky¹, DeJauwne Young¹, Karoline Mikkelsen^{2,3}, Annemette Præstegaard Thulesen², Helle Sedighi Frandsen³, Simone Sidoli¹

¹Department of Biochemistry, Albert Einstein College of Medicine ²Department of Biochemistry and Molecular Biology, University of Southern Denmark

³CelVivo ApS

Corresponding Author

Simone Sidoli

simone.sidoli@einsteinmed.edu

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Materials

Name	Company	Catalog Number	Comments
1.5 mL microcentrifuge tubes	Bio-Rad	2239480	
10 mL syringe	Fisher Scientific	1481754	Luer lock tip, graduated to 12 mL
1000 µL wide bore pipet tips	Fisher Scientific	14222703	
200 µL wide bore pipet tips	Fisher Scientific	14222730	
96-well Orochem filter plate	Orochem	OF1100	
96-well skirted plate	Axygen	PCR-96-FS-C	
96-well vacuum manifold	Millipore	MAVM0960R	
Ammonium bicarbonate	Sigma	A6141-25G	
Bronchial Epithelial Cell Growth Medium (BEGM)	Lonza	CC-3170	
Cell culture grade water	Corning	25-055-CV	
ClinoReactor	CelVivo	N/A	Bioreactor for 3D cell culture
ClinoStar incubator	CelVivo	N/A	CO ₂ incubator for 3D cell culture
DTT	Sigma	D0632-5G	
Dulbecco's Modified Eagle's Medium (DMEM)	Fisher Scientific	MT17205CV	
Elplasia 24-well round bottom ultra-low attachment plate containing microwells	Corning	4441	
Fetal Bovine Serum	Fisher Scientific	MT35010CV	
Formic acid	Thermo	28905	
Hank's Balanced Salt Solution (HBSS)	Fisher Scientific	MT21022CV	
hEGF	Corning	354052	
HERAcell vios 160i	Thermo	51033557	CO ₂ incubator for 2D cell culture
HPLC grade acetonitrile	Fisher Scientific	A955-4	
HPLC grade methanol	Fisher Scientific	A452-1	

HPLC grade water	Fisher Scientific	W5-4	
Iodoacetamide	Sigma	I1149-5G	
L-glutamine	Fisher Scientific	MT25015CI	
Non-essential amino acids	Fisher Scientific	MT25025CI	
Oasis HLB Resin 30 µm	Waters	186007549	
Orbitrap Fusion Lumos Tribrid mass spectrometer	Thermo	IQLAAEGAAPFADBMBHQ	High resolution mass spectrometer
PAULA microscope	Leica		
Penicillin-Streptomycin	Fisher Scientific	MT3002CI	
PerkinElmer Victor X2 multilabel microplate reader	PerkinElmer		
pH paper	Hydriion	93	
Phosphoetanolamine	Sigma	P0503	
Phosphoric acid	Fisher Scientific	A260-500	
Pipette gun	Eppendorf	Z666467 (Milipore Sigma)	
Refrigerated centrifuge	Thermo	75-217-420	
Reposil-Pur resin	MSWIL	R13.AQ.003	120 Å pore size, C18-AQ phase, 3 µM bead size
SDS	Bio-Rad	1610301	
Sequencing grade modified trypsin	Promega	V511A	
SpeedVac vacuum concentrator (96-well plates)	Thermo	15308325	Savant SPD1010
Sterile hood	Thermo	1375	
Sterile serological pipettes	Fisher Scientific	1367549	
S-trap	Protifi	C02-micro-80	
Syringe needle (18 G)	Fisher Scientific	14817100	3" length, 0.05" diameter
Trifluoroacetic acid (TFA)	Thermo	28904	
Trypsin-EDTA	Gibco	25300-054	
Vortex	Sigma	Z258415	
Water bath	Fisher Scientific	FSGPD10	