

Materials List for

Profiling Sensitivity to Targeted Therapies in EGFR-Mutant NSCLC Patient-Derived Organoids

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jove.com/video/63039

Materials

Name	Company	Catalog Number	Comments
1.5 mL tubes			
15 mL centrifuge tubes			
500 mL Vacuum Filter/Storage Bottle System, 0.2 µm Pore 33.2 cm ² Nylon Membrane	Corning	430773	for both media
96-Well, Cell Culture-Treated, Flat Clear Bottom Black Microplate	Corning	3904	
96-Well, Cell Culture-Treated, Solid White Flat-Bottom Microplate	Corning	3917	
A-8301	Tocris Bioscience	293910	for both media
Advanced DMEM/F-12	Gibco	12634010	for LGM
B27	Life Technologies	12587010	for both media
BioRender 2021	https://biorender.com/		online scientific illustration software
BME2 (Cultrex RGF Basement Membrane Extract, Type 2)	R&D Systems	353301002	
Cell culture incubator (37 °C, 5% CO ₂)			
CellTiter-Glo 3D Cell Viability Assay	Promega	G9682	3D-CTG readout reagent
Centrifuge holding 15 mL centrifuge tubes			
Deoxyribonuclease I (DNase I)	ThermoFisher Scientific	18047019	
Dulbecco's Phosphate-Buffered Salt Solution	Corning	MT21031CV	
DMEM/F-12, GlutaMAX supplement	Gibco	10565018	for GM
GlutaMax	Gibco	35050061	for LGM
GraphPad Prism software (version 9.2.0)	GraphPad		statistical analysis software
HEPES	Gibco	15630080	for both media
hFGF-10	PeproTech	100-26-100ug	for GM

hFGF-7	PeproTech	100-19-50ug	for GM
hNoggin	PeproTech	120-10C-100ug	for both media
hRspodin	PeproTech	120-38-100ug	for GM
Low retention pipette tips, 20 µL (P20)	ThermoFisher Scientific	2149P-05-HR	
Low retention pipette tips, 200 µL (P200)	ThermoFisher Scientific	2069-05-HR	
Regular length pipette tips, 1000 µL (P1000)	ThermoFisher Scientific	2179-HR	
Multichannel pipette			
N-Acetylcysteine	Fisher Scientific	50-424-777	for both media
Nicotinamide	Sigma Aldrich	N0636-100G	for both media
Osimertinib	Selleck Chem	S7297	
Penicillin-Streptomycin-Glutamine	Gibco	10378016	for LGM
Penicillin/Streptomycin	Cytiva HyClone	SV30010	for GM
Pipettes (different sizes)			
Plate reader	Molecular Devices	SpectraMax M5	equipment, alternative readers may be used
Primocin	Invivogen	ant-pm-1	for GM
SB202190	Selleck Chem	S1077	for GM
TrypLE Express Enzyme	Gibco	12604021	
Vacuum pump and tubing			
Vi-CELL XR Cell Analyzer	Beckman Coulter	Vi-CELL XR	cell analyzer / counter