

A Robust Method for the Large-Scale Production of Spheroids for High-Content Screening and Analysis Applications

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jove.com/video/63436

Materials

Name	Company	Catalog Number	Comments
0.05% Trypsin-EDTA (1x), phenol red	Gibco	25300054	
Bovine Serum Albumin (BSA)	Sigma Aldrich	A6003	
Calcium chloride	Fisher Scientific	10050070	
CellCarrier-96 Ultra Microplates, tissue culture treated, black, 96-well with lid	Perkin Elmer	6055302	These plates have been renamed as Phenoplates
Dimethyl sulfoxide (DMSO)	Sigma Aldrich	D2650	
Foetal Bovine Serum (FBS), qualified, EU approved, South America origin, heat inactivated	Gibco	10500064	
Glycine	Fisher Scientific	BP381-1	
Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488	Invitrogen	A-11029	
L-Glutamine solution, 200 mM	Gibco	25030024	
Hoechst 33342	Sigma Aldrich	14533	
Magnesium chloride	Fisher Scientific	10647032	
Matrigel Basement Membrane Matrix, Phenol Red-free, LDEV-free, 10 mL	Corning	356237	This Matrigel formulation can be also found with the same catalogue number at BD Biosciences
Matrigel Growth Factor Reduced Matrigel	BD Biosciences	356231	This Matrigel formulation can be also found with the same catalogue number at Corning
McCoy's 5A medium	Gibco	26600023	
McCoy's 5A medium with L glutamine and sodium bicarbonate, without phenol red	Hyclone	10358633	
Minimum Essential Medium (MEM)	Gibco	21090022	
Minimum Essential Medium (MEM), without glutamine, without phenol red	Gibco	51200046	

Mouse monoclonal anti-LAMP1 antibody (concentrate)	Developmental Studies Hybridoma Bank	H4A3-a	
Neubauer counting chamber	Hirschmann	8100203	
Nunclon tissue culture dish with lid, polystyrene, 92 mm x 17 mm	ThermoFisher Scientific	150350	
Opera Phenix HCS System and Harmony HCA software	Perkin Elmer	HCSHH14000000	
Paraformaldehyde (PFA)	Sigma Aldrich	P6148	
Phalloidin Alexa Fluor 568	Invitrogen	A12380	
Phosphate Buffered Saline (PBS) tablets	Sigma Aldrich	P4417	
Polysorbate 20	Sigma Aldrich	P5927	
RPMI 1640 Medium, GlutaMAX Supplement	Gibco	61870010	
RPMI 1640 Medium, without glutamine, without phenol red	Gibco	11835063	
Triton X-100	Sigma Aldrich	T9284	
Stericup sterile vacuum filter units	Millipore	SCGVU05RE	