

Materials List for

Development of Organoids from Mouse Pituitary as *In Vitro* Model to Explore Pituitary Stem Cell Biology

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Materials

Name	Company	Catalog Number	Comments
2-Mercaptoethanol	Sigma-Aldrich	M6250	
48-well plates, TC treated, individually wrapped	Costar	734-1607	
A83-01	Sigma-Aldrich	SML0788	
Advanced DMEM/F12	Gibco	12634010	
Albumin Bovine (cell culture grade)	Serva	47330	
B-27 Supplement (50X), minus vitamin A	Gibco	12587010	
Base moulds	VWR	720-1918	
Buffer RLT	Qiagen	79216	
Cassettes, Q Path Microtwin	VWR	720-2191	
Cell strainer, 40 µm mesh, disposable	Falcon	352340	
Cholera Toxin from <i>Vibrio cholerae</i>	Sigma-Aldrich	C8052	
Deoxyribonuclease I from bovine pancreas	Sigma-Aldrich	D5025	
D-glucose	Merck	108342	
Dimethylsulfoxide (DMSO)	Sigma-Aldrich	D2650	
DMEM, powder, high glucose	Gibco	52100039	
Eppendorf Safe-Lock Tubes, 1.5 mL	Eppendorf	30120086	
Eprexia SuperFrost Plus Adhesion slides	Thermo Fisher Scientific	J1800AMNZ	
Eprexia HistoStar Embedding Workstation, 220 to 240Vac	Thermo Fisher Scientific	12587976	
Ethanol Absolute 99.8+%	Thermo Fisher Scientific	10342652	
Fetal bovine serum (FBS)	Sigma-Aldrich	F7524	
GlutaMAX Supplement	Gibco	35050061	
HEPES	Sigma-Aldrich	H4034	

HEPES Buffer Solution	Gibco	15630056	
InSolution Y-27632	Sigma-Aldrich	688001	
L-Glutamine (200 mM)	Gibco	25030081	
Matrigel Growth Factor Reduced (GFR) Basement Membrane Matrix, LDEV-Free	Corning	15505739	
Mr. Frosty Freezing Container	Thermo Fisher Scientific	5100-0001	
N-2 Supplement (100X)	Thermo Fisher Scientific	17502048	
N-Acetyl-L-cysteine	Sigma-Aldrich	A7250	
Nunc Biobanking and Cell Culture Cryogenic Tubes	Thermo Fisher Scientific	375353	
Paraformaldehyde for synthesis (PFA)	Merck	818715	
PBS, pH 7.4	Gibco	10010023	
Penicillin G sodium salt	Sigma-Aldrich	P3032	
Penicillin-Streptomycin (10,000 U/ mL)	Gibco	15140122	
Phenol red	Merck	107241	
Potassium Chloride (KCl)	Merck	104936	
Recombinant Human EGF Protein, CF	R&D systems	236-EG	
Recombinant Human FGF basic/ FGF2/bFGF (157 aa) Protein	R&D systems	234-FSE	
Recombinant Human FGF-10	Peprtech	100-26	
Recombinant Human IGF-1	Peprtech	100-11	
Recombinant Human IL-6	Peprtech	200-06	
Recombinant Human Noggin	Peprtech	120-10C	
Recombinant Human R-Spondin-1	Peprtech	120-38	
Recombinant Human/Murine FGF-8b	Peprtech	100-25	
Recombinant Mouse Sonic Hedgehog/Shh (C25II) N-Terminus	R&D systems	464-SH	
RNeasy micro kit	Qiagen	74004	
SB202190	Sigma-Aldrich	S7067	
SeaKem LE Agarose	Lonza	50004	
Sodium Chloride (NaCl)	BDH	102415K	
Sodium di-Hydrogen Phosphate 1-hydrate	PanReac-AppliChem	A1047	
Sodium Hydrogen Carbonate (NaHCO ₃)	Merck	106329	
Sodium-Pyruvate (C ₃ H ₃ NaO ₃)	Sigma-Aldrich	P5280	
Stericup-GP, 0.22 µm	Millipore	SCGPU02RE	
Steriflip-GP Sterile Centrifuge Tube Top Filter Unit, 0.22 µm	Millipore	SCGP00525	
Sterile water	Fresenius	B230531	
Streptomycin sulfate salt	Sigma-Aldrich	S6501	
Thermo Scientific Excelsior ES Tissue Processor	Thermo Scientific	12505356	
Titriplex III	Merck	108418	
TrypL Express Enzyme (1X), phenol red	Thermo Fisher Scientific	12605028	
Trypsin inhibitor from Glycine max (soybean)	Sigma-Aldrich	T9003	

Trypsin solution 2.5 %	Thermo Fisher Scientific	15090046	
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