

Materials List for:

A cGMP-applicable Expansion Method for Aggregates of Human Neural Stem and Progenitor Cells Derived From Pluripotent Stem Cells or Fetal Brain Tissue

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Materials

Name	Company	Catalog Number	Comments
Beaker, 50 ml	Fisherbrand	FB-100-50	multiple manufacturers/suppliers
Bio-Safety Cabinet, class II	Baker	SG-603A	4 ft. or 6 ft. model. 6 ft. model recommended; multiple manufacturers/suppliers
Blades, Double-edge Prep	Personna	74-0002	multiple manufacturers/suppliers. CAUTION: Sharp
Cell Freezing Media	Sigma-Aldrich	C6295-50ML	DMSO, serum-free
Centrifuge, swing-bucket with 15 ml inserts	Eppendorf	5810 R	multiple manufacturers/suppliers
Conical Tubes, 15 ml	Fisherbrand	S50712	multiple manufacturers/suppliers
Conical Tubes, 50 ml	BD Falcon	352074	multiple manufacturers/suppliers
Controlled Rate Freezer	Planer	Kryo 750	multiple manufacturers/suppliers
Cryovials, 2 ml	Corning	430488	multiple manufacturers/suppliers
Culture Flask, Vented, T12.5	BD Falcon	353107	multiple manufacturers/suppliers
Culture Flask, Vented, T25	BD Falcon	353081	multiple manufacturers/suppliers
Culture Flask, Vented, T175	BD Falcon	353045	multiple manufacturers/suppliers
Culture Flask, Vented, T75	BD Falcon	353110	multiple manufacturers/suppliers
Filter, 0.22 µm, attached cup, 1 L	Millipore	SCGPU11RE	multiple manufacturers/suppliers
Filter, 0.22 µm, attached cup, 150 ml	Millipore	SCGVU01RE	multiple manufacturers/suppliers
Filter, 0.22 µm, attached cup, 500 ml	Millipore	SCGPU05RE	multiple manufacturers/suppliers
Filter, 0.22 µm, attached cup, 50 ml	Millipore	SCGP00525	multiple manufacturers/suppliers
Filter Paper, 8.5 cm circles	Whatman/GE	1001-085	
Forceps, Standard Pattern - Serrated/Curved/18 cm	Fine Science Tools	11001-18	
Freezing Chamber, Isopropyl Alcohol	Nalgene	5100-0001	"Mr. Frosty"
Incubator, 37 °C/5% CO ₂	Forma	370 series	multiple manufacturers/suppliers
Hemocytometer, Phase	Hausser Scientific	1475	multiple manufacturers/suppliers
Mcllwain Tissue Chopper	Lafayette Instruments	TC752-PD	Petri dish modification required. CAUTION: Moving, sharp blade.
Micropipettor, 1-10 µl	Gilson	F144562	multiple manufacturers/suppliers
Micropipettor, 100-1,000 µl (starter kit)	Gilson	F167700	multiple manufacturers/suppliers
Micropipettor, 2-20 µl (starter kit)	Gilson	F167700	multiple manufacturers/suppliers

Micropipettor, 20-200 µl (starter kit)	Gilson	F167700	multiple manufacturers/suppliers
Nutdriver, Autoclavable, 5/16"	Steritool	10302	
Pasteur Pipets, cotton-plugged	Fisherbrand	13-678-8B	multiple manufacturers/suppliers
Petri Dish, Glass, Autoclavable	Corning	3160-100	
Pipet Aid	Drummond	4-000-101	multiple manufacturers/suppliers
Shim disc	McMaster-Carr	VARIABLE	multiple manufacturers/suppliers
Sterile barrier pipet tips, 10 µl	AvantGuard	AV10R-H	multiple manufacturers/suppliers
Sterile barrier pipet tips, 1,000 µl	AvantGuard	AV1000	multiple manufacturers/suppliers
Sterile barrier pipet tips, 20 µl	AvantGuard	AV20-H	multiple manufacturers/suppliers
Sterile barrier pipet tips, 200 µl	AvantGuard	AV200-H	multiple manufacturers/suppliers
Sterile Disposable pipettes, all-plastic wrap, 10 ml	Fisherbrand	13-676-10J	multiple manufacturers/suppliers
Sterile Disposable pipettes, all-plastic wrap, 2 ml	Fisherbrand	13-675-3C	multiple manufacturers/suppliers
Sterile Disposable pipettes, all-plastic wrap, 25 ml	Fisherbrand	13-676-10K	multiple manufacturers/suppliers
Sterile Disposable pipettes, all-plastic wrap, 5 ml	Fisherbrand	13-676-10H	multiple manufacturers/suppliers
Sterilization Pouches, 19 x 33 cm	Crosstex	SCL	multiple manufacturers/suppliers
Strainer, 40 µm	BD Falcon	352340	
Tissue Culture Dishes, 60 mm	BD Falcon	351007	
Tube Racks, Interlocking Four-Way	Fisherbrand	03-448-17	
Water Bath	Fisherbrand	S52602Q	multiple manufacturers/suppliers
Neural Progenitor Cell-Specific Processing Reagents			
Neural Stem Cell Expansion Medium (Stemline)	Sigma-Aldrich	S3194-500ML	Important to use the Stemline brand
Recombinant Human Epidermal Growth Factor (EGF)	Millipore	GF316	multiple manufacturers/suppliers
Recombinant Human Leukemia Inhibitory Factor (LIF)	Millipore	LIF1010	multiple manufacturers/suppliers
Trypan Blue (0.4%)	Sigma-Aldrich	T8154-100ML	multiple manufacturers/suppliers
TrypLE Select (1x)	Life Technologies	12563-011	