

Materials List for:

Flow Cytometry-based Drug Screening System for the Identification of Small Molecules That Promote Cellular Differentiation of Glioblastoma Stem Cells

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Materials

Name	Company	Catalog Number	Comments
ESGRO Complete Accutase	EMD Millipore	SF006	
Dimethyl Sulfoxide (DMSO)	Sigma Aldrich	D2650	
HBSS (Hank's Balanced Salt Solution)	Sigma Aldrich	H6648	
Human GFAP Differentiation Reporter (pGreenZeo, Virus)	SBI (System Biosciences)	SR10015VA-1	
50 ml sterile disposable reagent reservoirs	Corning	4870	
6 well plate	Thermo Fisher Scientific	130184	
96 well plate	Falcon	353072	
Biolite T25 cm ² Flask Vented	Thermo Fisher Scientific	130189	
Biolite T75 cm ² Flask Vented	Thermo Fisher Scientific	130190	
15 ml Centrifuge tubes	Celltreat	229411	
1.5ml Microcentrifuge tubes	Fisher Scientific	05-408-129	
Ovation Multi Channel Pipette, 12 Channel, 0.5 - 20uL	VistaLab Technologies	1060-0020	
Ovation Multi Channel Pipette, 12 Channel, 5-250uL	VistaLab Technologies	1060-0250	
Multi 12-channel pipette tips 25 µl	VistaLab Technologies	4060-1002	
Multi 12-channel pipette tips 250 µl	VistaLab Technologies	4060-9025	
Guava easyCyte 5HT Benchtop Flow Cytometer	EMD Millipore	0500-4005	
NIH Clinical Collections 1 and 2 small molecule libraries	Evotec		
Name	Company	Catalog Number	Comments
For the preparation of neural stem cell media (500 mL)			Final concentration
BSA	GoldBio.com	A-421-250	0.20%
DMEM/F12 10X	Corning	90-091-PB	1X
Heparin sodium salt	Sigma Aldrich	H3149	0.0002%
HEPES 1M	Sigma Aldrich	H4036	5.4 mM
Insulin-Transferrin- Selenium (ITS - G) (100X)	Life Technologies	41400-045	1X
NaHCO ₃	Sigma Aldrich	S-5761	14.5 mM

Penicillin-Streptomycin (10,000 U/ mL) 100X	Gibco	15140-122	1X
Progesterone	Sigma Aldrich	P8783	16 nM
Putrescine	Sigma Aldrich	P5780	4.8 μ M
Basic FGF (FGF2), Human	GoldBio	1140-02-50	10 ng/ml
EGF, Human	GoldBio	1150-04-100	20 ng/ml
Bottle-Top Filter, 150ml, 33mm, 0.22 μ m, Pes, S, Ind	Corning	431160	Use to filter sterilize media