

Materials List for:

Differentiation of a Human Neural Stem Cell Line on Three Dimensional Cultures, Analysis of MicroRNA and Putative Target Genes

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Materials

Name	Company	Catalog Number	Comments
DMEM:F12	Invitrogen	21331-020	For RMM medium preparation
Human Albumin Solution	Baxter health care limited	1501052	For RMM medium used at a final concentration of 0.03%
Transferrin, Human recombinant	Sigma	T8158	For RMM medium used at a final concentration of 5 µg/ml
Putrescine DiHCl	Sigma	P5780	For RMM medium used at a final concentration of 16.2 µg/ml
Insulin, Human recombinant	Sigma	I9278	For RMM medium used at a final concentration of 5 µg/ml
Progesterone	Sigma	P6149	For RMM medium used at a final concentration of 60 ng/ml
L-Glutamine	Invitrogen	25030-24	For RMM medium used at a final concentration of 2 mM
Sodium Selenite	Sigma	S9133	For RMM medium used at a final concentration of 40 ng/ml
bFGF	Peprtech	AF-100-15	To be added to RMM medium, used at a final concentration of 10 ng/ml
EGF	Peprtech	AF-100-188	To be added to RMM medium, used at a final concentration of 20 ng/ml
4-OHT	Sigma	H7904	To be added to RMM medium, used at a final concentration of 100 nM
Laminin	AMS Biotech	3400-010-10	
TrypZean/EDTA	Lonza	BE02-034E	
Water for irrigation	Baxter Healthcare	UKF7114	
Defined Trypsin Inhibitor (DTI) (store -20°C)	Invitrogen	R007-100	
Alvetex 12 well plate	Reinnervate Ltd	AVP002	
Ethanol	Merck	1.00986.1000	
βIII tubulin antibody	Sigma	T8660	
Hoechst	Sigma	B2261	
miRNeasy mini kit	Qiagen	217004	
RNase free DNase	Qiagen	79254	
Chloroform	Sigma	C7559-5VL	
miScript II RT Kit	Qiagen	218160	
SYBR green PCR kit	Qiagen	218073	

Cell Development & Differentiation miScript miRNA PCR Array	Qiagen/ SABiosciences	MIHS-103Z	
Lightcycler 480 white 96 plate	Roche	4729692001	
Lightcycler 480 sealing foil	Roche	4729757001	
Lipofectamine 2000	Invitrogen	11668-027	
Vector NR4A3 miRNA 3' UTR target clones	GeneCopeia	HmiT019538-MT0	
Vector SOX5 miRNA 3' UTR target clones	GeneCopeia	HmiT017632-MT01	
Allstars negative control siRNA AF 488 (Qiagen).	Qiagen	1027284	MiRNA transfection control
Luc-Pair miR Luciferase Assay	GeneCopeia	LPFR-M010	
Lightcycler 480	Roche		
GloMax 96 microplate luminometer	Promega		