

Materials List for:

Inhibitory Synapse Formation in a Co-culture Model Incorporating GABAergic Medium Spiny Neurons and HEK293 Cells Stably Expressing GABA_A Receptors

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Materials

Name	Company	Catalog Number	Comments
DMEM (Dulbecco's Modified Eagle Medium)	Life Technologies	11960-044	Warm in water bath at 37 °C before use
L-Glutamine	Life Technologies	25030-024	
Penicillin/Streptomycin	Life Technologies	15070-063	Danger: irritant
FBS (Fetal Bovine Serum)	Life Technologies	10106-169	
Neuralbasal	Life Technologies	21103-049	Warm in water bath at 37 °C before use
B27 Supplement	Life Technologies	17504-044	
Glucose	Sigma-Aldrich	G8769	
HBSS (10X)	Life Technologies	14180-046	
HEPES (1M)	Life Technologies	15630-056	
PBS (1X)	Life Technologies	10010-031	
pcDNA 3.1 ⁽⁺⁾ Mammalian Expression Vector (Geneticin-selection)	Life Technologies	V790-20	
pcDNA 3.1 ⁽⁺⁾ Mammalian Expression Vector (Zeocin-selection)	Life Technologies	V860-20	
pcDNA 3.1 ⁽⁺⁾ Mammalian Expression Vector (Hygromycin-selection)	Life Technologies	V870-20	
Stable HEKα1β2γ2 line	Sanofi-Synthelabo, Paris		
Poly-D-lysine	Sigma-Aldrich	P1149	
G418 disulfate salt (Geneticin)	Sigma-Aldrich	G5013	Danger: irritant
Phleomycin D1 (Zeocin)	Life Technologies	R25001	
Hygromycin B	Life Technologies	10687-010	Danger: toxic, irritant and corrosive
Trypsin-EDTA	Life Technologies	25300-054	Warm in water bath at 37 °C before use. Danger: irritant.
Poly-L-lysine	Sigma-Aldrich	P6282	
Laminin	Sigma-Aldrich	L2020	
100 μm Nylon Cell Strainer	VWR	734-0004	
Cytosine β-D-arabinofuranoside (Ara-C)	Sigma-Aldrich	C1768	Danger: Irritant
Chelating agent (Versene)	Life Technologies	15040-033	
Liposomal transfection reagent (Lipofectamine LTX) with liposomal	Life Technologies	15338-100	Alternative transfection method: Effectene Reagent

transfection buffering reagent (PLUS reagent).			
Non-liposomal transfection reagent (Effectene reagent)	Qiagen	301425	
Reduced serum medium (Opti-MEM)	Life Technologies	11058-021	
Mouse anti-Synaptotagmin antibody conjugated to Cy5	Synaptic Systems	105311C5	
Neurobasal A	Life Technologies	10888-022	
Sodium Chloride (NaCl)	VWR	27810.364	
Glycine	Sigma-Aldrich	G1726	
BSA (Bovine Serum Albumin)	Sigma-Aldrich	A3294	
Guinea pig anti- γ 2 GABA _A receptor antibody	Prof. Jean Marc Fritschy	N/A	(Institute of Zurich, Switzerland) Fritschy, JM and Mohler, H. J. <i>Comp. Neurol.</i> 359 (1), 154-194 (1995).
Triton X-100	Promega	H5141	
Mouse anti-Glutamate Decarboxylase (GAD)65 antibody	Merck Millipore	MAB351	
Mouse anti-synapsin antibody	Synaptic Systems	106-011	
Mouse anti- β 2/3 antibody (BD17)	Merck Millipore	MAB341	
Rabbit anti- α 1 GABA _A receptor antibody	Professor Anne Stephenson	N/A	(UCL School of Pharmacy, London) FA Stephenson <i>et al. J. Comp. Neurol.</i> 416 (2), 158-172
Goat anti-guinea pig conjugated to Cy5 antibody	Merck Millipore	AP1085	
Goat anti-mouse Alexa Fluor 488 antibody	Merck Millipore	AP124S	
Goat anti-mouse Alexa Fluor 405 antibody	Life Technologies	A31553	
Goat anti-mouse Alexa Fluor 555 antibody	Life Technologies	A21422	
Goat anti-rabbit Alexa Fluor 488 antibody	Life Technologies	A11008	
Mounting reagent (Prolong Gold)	Life Technologies	P36930	Use at room temperature