

Materials List for:

# Isolation and Expansion of Adult Canine Hippocampal Neural Precursors

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## Materials

Name	Company	Catalog Number	Comments
1,000 µl filtered pipette tip	Axygen	TF1000	
150 mm Petri dish	BD Biosciences	351058	
15 ml centrifuge tubes	Greiner Bio One	188271	
200 µl filtered pipette tip	Axygen	TF200	
24 well culture plate	Greiner Bio One	662160	
35 mm tissue culture dish	BD Biosciences	353001	
40 µm cell strainer	BD Biosciences	352340	
6 well culture plate	BD Biosciences	351146	
B-27 Supplement (50x) serum free	Life Technologies	17504044	
Basic fibroblast growth factor (bFGF)	Life Technologies	13256029	
Brain derived neurotrophic factor (BDNF)	Millipore	GF029	
Collagen solution	Stem Cell Technologies	04902	Also available in the Neurocult NCFC Assay Kit from Stem Cell Technologies. Cat: 05740
DMEM (4.5 g/L, D-glucose) 500 ml	Life Technologies	11960044	
DPBS	Life Technologies	14190250	
Epidermal growth factor (EGF)	BD Biosciences	354001	
F-12 nutrient mixture (Ham) (1x) Liquid	Life Technologies	31765035	
Fetal bovine serum (FBS)	Life Technologies	16141079	
Gelatin from Porcine Skin Type A	Sigma-Aldrich	G1890	
L-alanyl-L-glutamine dipeptide (GlutaMAX)	Life Technologies	35050061	
Heparin sodium salt from (porcine)	Sigma-Aldrich	H314950KU	
Laminin (mouse)	Life Technologies	23017015	
NCFC serum free medium (NeuroCult)	Stem Cell Technologies	5720	Also available in the Neurocult NCFC Assay Kit from Stem Cell Technologies. Cat: 05740
Proliferation NS-A (NeuroCult)	Stem Cell Technologies	05773	Also available in the Neurocult NCFC Assay Kit Cat: 05740, and NS-A Proliferation Kit (Rat) Cat: 05771 from Stem Cell Technologies.
NSC basal medium (Rat; NeuroCult)	Stem Cell Technologies	5770	Also available in the Neurocult NS-A Proliferation Kit (Rat) from Stem Cell Technologies. Cat: 05771

Penicillin/Streptomycin (5,000 U/ml)	Life Technologies	15070063	
Povidone-iodine	Munipharma	Betadine	
Trypan blue (0.4%)	Life Technologies	15250061	
Trypsin EDTA	Life Technologies	25200056	
Class II biological safety cabinet	ThermoFisher Scientific	Safe 2020 1.2	
Brain knife (disposable)	Macroknife		
Cell culture incubator	ThermoFisher Scientific	HERAcell 150i	
Centrifuge	Hettich	Universal 320R	
Dumont #5 Forceps	Dumont		
Easypet Electric pipette	Eppendorf		
Hemocytometer	Boeco	Bright-Line Improved Neubauer	
Manual pipettes	Eppendorf research		
Oscillating bone saw			
Scalpel blades (No.21)	Paramount		
Scissors	Delta		
Water bath	Grant	JB Aqua 18 plus	