

Materials List for:

Isolation and Culture of Rat Embryonic Neural Cells: A Quick Protocol

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URL: <https://www.jove.com/video/3965>

DOI: [doi:10.3791/3965](https://doi.org/10.3791/3965)

Materials

Name	Company	Catalog Number	Comments
Neurobasal	98%		
B27	2%		
Glutamax	0.5 mM		
Table I. Neurobasal/B27 complete medium.			
Glucose	16 mM		
Sucrose	22 mM		
HEPES	10 mM		
NaCl	160 mM		
KCl	5 mM		
Na ₂ HPO ₄	1 mM		
KH ₂ PO ₂	0.22 mM		
Gentamicin	50 µg/ml		
Fungizone	250 ng/ml		
pH	7.4		
Osmolarity	320-330 mOsm		
Table II. Dissection medium.			
Neurobasal/B27 complete medium	240		
Trypan Blue Stain 0.4%	250		
Total	490		
Table III. 50x Counting solution.			
Hibernate E	Brainbits	767171	
Neurobasal	GIBCO, by Life Technologies	21103-049	
B27	GIBCO, by Life Technologies	17504-044	
Fungizone	GIBCO, by Life Technologies	15290-018	
Gentamicin sulfate	Sigma-Aldrich	G1264	
Glutamax 200 mM	GIBCO, by Life Technologies	35050	
TrypLE Express w/o phenol red	GIBCO, by Life Technologies	12604	
Cytosine-β-D-arabinofuranoside hydrochloride	Sigma Aldrich	C6645	
Poly-D-Lysine	Sigma Aldrich	P6407	
Laminin 1 mg/ml	EMD Millipore	CC095	
HEPES	Sigma-Aldrich	H3375	
Trypan Blue Stain 0.4%	GIBCO, by Life Technologies	15250	
Table IV. Specific reagents.			

Stereo Microscope	Olympus Corporation	SZ61	
Large Forceps	Fine Science Tools	11022-14	
Fine-tipped forceps	Moria	MC40B	
Micro fine-tipped forceps	Moria	MC31	
Razor-sharp scissors	Roboz Surgical Instruments Co.	RS-6820	
Micro Dissecting scissors	Fine Science Tools	91460-11	
Micro Dissecting Curved scissors	Fine Science Tools	14067-11	
Glass 2-chamber slides	Lab-Tek	154461	
60 mm dishes	BD Biosciences	353002	
100 mm dishes	Corning	430167	
15 ml tubes	BD Biosciences	352099	
1.5 ml cryo-tube vial	Nalge Nunc international	375353	

Table V. Specific equipment.