

Materials List for

# Generation of Induced Neural Stem Cells (iNSCs) from Peripheral Blood Mononuclear Cells (PBMNCs): A Sendai Virus-based Procedure to Reprogram PBMNCs into iNSCs

1  
?

URL: <https://www.jove.com/video/20669>  
DOI: [doi:10.3791/20669](https://doi.org/10.3791/20669)

## Materials

Name	Company	Catalog Number	Comments
B27 supplement	Invitrogen	17504044	
CHIR99021	Gene Operation	04-0004	
DMEM-F12	Gibco	11330	
DMEM-F12	Gibco	11320	
Laminin	Roche	11243217001	
N2 supplement	Invitrogen	17502048	
NEAA	Invitrogen	11140050	Non-essential amino acid
Neurobasal	Gibco	10888	Basic medium
PDL	Sigma-Aldrich	P7280	Poly-D-lysine
SB431542	Gene Operation	04-0010-10mg	Store from light at -20?
Sendai virus	Life Technologies	MAN0009378	
Insulin	Roche	12585014	
24-well plate	Corning	3337	
15-ml conical tube	Corning	430052	
6-well plate	Corning	3516	
EPO	Peprtech	100-64-50UG	Human Erythropoietin
Human leukemia inhibitory factor	Millpore	LIF1010	
Human recombinant SCF	Peprtech	300-07-100UG	
IGF-1	Peprtech	100-11-100UG	Human insulin-like growth factor
IL-3	Peprtech	200-03-10UG	Human interleukin 3
Dexamethasone	Sigma-Aldrich	D2915-100MG	
IMDM	Gibco	215056-023	Iscove's modified Dulbecco's medium
Insulin	Roche	12585014	
ITS-X	Invitrogen	51500-056	Insulin-transferrin-selenium-X supplement
GlutaMAX	Invitrogen	21051024	100 × Glutamine stock solution
Ham's-F12	Gibco	11765-054	
1-Thioglycerol	Sigma-Aldrich	M6145	Toxic for inhalation and skin contact
Ascorbic acid	Sigma-Aldrich	A92902	Toxic with skin contact
Knockout serum replacement	Gibco	10828028	Serum free basal medium
Chemically defined lipid concentrate	Invitrogen	11905031	
Transferrin	R&D Systems	2914-HT-100G	

---

Trypan blue	Gibco	T10282	
-------------	-------	--------	--