

Materials List for:

# In Vitro Differentiation of Human Pluripotent Stem Cells into Trophoblastic Cells

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## Materials

Name	Company	Catalog Number	Comments
DMEM/F12	Invitrogen	11330-057	
Knock Out Serum Replacement	Invitrogen	10828-028	This is referred to as "serum replacement" in this protocol.
NEAA	Invitrogen	11140-050	
FBS	Invitrogen	16000-044	
L-Glutamine	Invitrogen	10828-028	
Penicillin/Streptomycin	Invitrogen	15140-155	
2-Mercaptoethanol	Sigma	M-7522	
B-FGF	Millipore	GF-003	
DMEM	Invitrogen	11965-118	
Dispase	Invitrogen	17105-041	
Collagenase Type IV	Invitrogen	17104-019	
Rock inhibitor Y27632	Calbiochem	688000	
Irradiated CF1 MEFs	GlobalStem	6001G	MEFs can be generated from embryonic day 13.5 embryos and irradiated.
0.22 µm syringe filter	Millipore	SLGS033SS	
Heracell 150i low oxygen incubator	Heracell/VWR	89187-192	Any tissue culture incubator with capacity to regulate oxygen concentrations is sufficient.
BMP4	R&D Systems	314-BP-01M	
A 83-01	R&D Systems	2939/10	
PD173074	R&D Systems	3044/10	
RNAiMax	Invitrogen	13778150	
Trizol	ThermoFisher	15596026	Trizol is used to isolate total RNA.
X-tremeGENE 9	Roche	6365779001	
Matrigel	Corning	356231	This is referred to as "extracellular matrix" in this protocol.