

Materials List for:

Production and Purification of Baculovirus for Gene Therapy Application

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Materials

Name	Company	Catalog Number	Comments
Akta Avant 150	GE Healthcare	28976337	Chromatography system
POROS Heparin 50 µm Column	ThermoFisher Scientific	4333414	Heparin column
Ultracentrifuge	Beckman-Coulter	Non-catalog item	Concentrates virus at high-speed
Polyallomer Ultracentrifuge tube	Beckman-Coulter	326823	Concentrates virus at high-speed
MaxQ 8000 orbital shaker incubator	ThermoFisher Scientific	Non-catalog item	Shaker for suspension culture
250 mL Erlenmeyer flasks	ThermoFisher Scientific	238071	Flask for suspension culture
1 L Erlenmeyer flasks	ThermoFisher Scientific	238072	Flask for suspension culture
Microscope (Olympus CKX41)	Olympus	Non-catalog item	Cell monitoring and counting
Table top centrifuge	ThermoFisher Scientific	75253839/433607	For clarification of Baculovirus supernatant
50 ml Conical tube	ThermoFisher Scientific	14-959-49A	For collection of Baculovirus supernatant
6-well plate	ThermoFisher Scientific	07-200-80	Tissue culture treated plate
10-cm plate	ThermoFisher Scientific	08-772E	Tissue culture treated plate
Stericup-HV, 0.45 µm, PVDF	EMD-Millipore	SCHVU05RE	Filtration unit
Kanamycin	ThermoFisher Scientific	15160-054	
Tetracycline	Sigma-Aldrich	T7660	
Gentamycin	ThermoFisher Scientific	15750-060	
Bac-to-Bac Vector Kit	ThermoFisher Scientific	10360-014	Baculovirus expression system
DH10B-T1R Competent cell	ThermoFisher Scientific	12331-013	Competent cell for bacmid
TE buffer	In-house	Non-catalog item	10 mM Tris-HCl, 1 mM EDTA, pH 8.0.
Plasmid Maxiprep kit	ThermoFisher Scientific	K2100-06	For bacmid purification
Sf9 Cells	ThermoFisher Scientific	11496-015	Insect cells
Grace's Insect Cell Culture Medium	ThermoFisher Scientific	11605-094	Transfection medium
PBS	ThermoFisher Scientific	20012227	Washing cells, diluting samples
HyClone SFX-Insect cell media	GE Healthcare	SH30278.02	Serum-free insect cell growth medium
Benzonase Nuclease	Sigma-Aldrich	E1014	Enzyme to degrade DNA and RNA
Baculovirus plasmid (bacmid) DNA	In-house	Non-catalog item	Bacmid for Baculovirus Production
Cellfectin II	ThermoFisher Scientific	10362	Transfection reagent for insect cells
Bovine serum albumin (BSA)	Sigma-Aldrich	A4737	Stabilizes Baculovirus
Cryovial	Thomas Scientific	1222C24	For storage of Baculovirus

HT1080 cell line	ATCC	CCL-121	Fibroblast cell line
DMEM	Sigma-Aldrich	D6429	Growth media for cell lines
Wash buffer	In-house	Non-catalog item	20 mmol/l phosphate buffer containing 150 mmol/l sodium chloride
Elution buffer	In-house	Non-catalog item	20 mmol/l phosphate buffer containing 1.5 mol/l sodium chloride
Column cleaning buffer	In-house	Non-catalog item	20 mmol/l phosphate buffer containing 2.0 mol/l sodium chloride
Sterile water	In-house	Non-catalog item	For Akta Avant cleaning
Sodium hydroxide	Sigma-Aldrich	1.09137	For Akta Avant cleaning
Ethanol	Sigma-Aldrich	E7073	For Akta Avant cleaning