

Materials List for

High Yield Expression of Recombinant Human Proteins with the Transient Transfection of HEK293 Cells in Suspension

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Materials

Name	Company	Catalog Number	Comments
Biosafety cabinet	NuAire, Inc.	CellGard ES NU-S475-400	Class II, Type A2 Biological Safety Cabinet
Incubation shaker	INFORS HT		Multitron Cell
Medium A: FreeStyle Expression Medium	Life Technologies	12338-018	
Medium B: ExCell 293 Serum-Free Medium	SIGMA	14571C	
125 Erlenmeyer Flask with Vented Cap	Corning Incorporated/Life Sciences	431143	
250 Erlenmeyer Flask with Vented Cap	Corning Incorporated/Life Sciences	431144	
FreeStyle HEK 293F Cells	Life Technologies	R790-07	
1 ml Disposable serological pipette	Fisher Scientific	13-676-10B	
10 ml Disposable serological pipette	Fisher Scientific	13-676-10J	
25 ml Disposable serological pipette	Fisher Scientific	13-676-10K	
Pipettor (Pipet-Aid XP)	Drummond Scientific	161263	
Trypan Blue Solution	Thermo Scientific	SV30084.01	
Counting slides	Bio-Rad	145-0011	
TC20 Automated Cell Counter	Bio-Rad	145-0102	
Polyethylenimine (PEI)	Polysciences Inc.	23966	Prepare stock solution at a concentration of 1 mg/ml in a buffer containing 25 mM 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES) and 150 mM NaCl (pH 7.5). Dissolve PEI completely; sterilize through 0.22 µM syringe filter and store at -20 °C.
4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	EMD Chemicals Inc.	7365-45-9	
25 mm Syringe Filter, 0.22 µM	Fisher Scientific	09-719A	
Trisaminomethane (Tris base)	Fisher Scientific	BP152-1	
XL1-Blue	Stratagene	222249	
Trypton	Fisher Scientific	BP1421-2	
Yeast extract	Fluka Analytical	92144	
Sodium chloride	BDH chemicals	BDH8014	

Plasmid Purification Kit	QIAGEN	12145	
Valproic (VPA)	SIGMA	P4543	Prepare stock solution of 220 mM in water, sterilize by passage through a sterile 0.22 mm filter and store at -20 °C
Centrifuge	Thermo Scientific	EW-17707-65	
Protein A-Sepharose column	SIGMA	P9424	
Ni-NTA superflow	QIAGEN	30430	
3-(N-morpholino)propanesulfonic acid (MOPS)	Fisher Scientific	BP308-500	
Glycine	Fisher Scientific	BP381-500	
10 kDa molecular weight cut-off Amicon® Ultra centrifugal filters	Millipore	UFC901096	
Sodium dodecyl sulfate	ALDRICH	L3771	
Beta-mercaptoethanol	ALDRICH	M6250	
Glycerol	SIGMA	G5516	
Precision Plus Protein All Blue Standards	Bio-Rad	161-0373	
Acetic Acid, Glacial	Fisher Scientific	64-19-7	
coomassie brilliant blue	Bio-Rad	161-0406	
MALDI-TOFMS Voyager-DE PRO	Applied Biosystems		
¹⁵ N labeled L-Tyrosine	ALDRICH	332151	
¹⁵ N labeled L-Lysine	ALDRICH	592900	
Unlabeled L-Phenylalanine	SIGMA-ALDRICH	P2126	
¹³ C6-Glucose	ALDRICH	389374	
2-deoxy-2-fluoro-L-fucose	SANTA CRUZ Biotechnology	sc-283123	