

Materials List for:

Cloning and Large-Scale Production of High-Capacity Adenoviral Vectors Based on the Human Adenovirus Type 5

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Materials

Name	Company	Catalog Number	Comments
I-CeuI	New England Biolabs	R0699S	restriction digest
PI-SceI	New England Biolabs	R0696S	restriction digest
T4 Ligase	New England Biolabs	M0202S	ligation
SwaI	New England Biolabs	R0604S	restriction digest
NotI	New England Biolabs	R0189S	restriction digest
Calf Intestinal Alkaline Phosphatase (CIP)	New England Biolabs	M0290S	dephosphorylation of digested plasmids
Hygromycin B	PAN Biotech	P02-015	selection of CRE expressing 116 cells
DMEM	PAN Biotech	P04-03590	Hek293T cell culture medium
Minimal Essential Medium (MEM) Eagle	PAN Biotech	P04-08500	116 cell culture medium
Dulbecco's phosphate buffer saline (DPBS)	PAN Biotech	P04-36500	washing of cells, resuspension of cells
250-ml storage bottle	Sigma	CLS430281-24EA	infection of 116 cells grown in suspension
500-ml PP Centrifuge Tubes	Sigma	CLS431123-36EA	sedimentation of cells from suspension culture
Spinner flask	Bellco	1965-61030	growth of 116 cells in suspension
Ultra Clear Ultracentrifuge tubes	Beckmann Coulter	344059	density gradient centrifugation
Ultracentrifuge	Beckmann Coulter		density gradient centrifugation
SW-41 rotor	Beckmann Coulter		density gradient centrifugation
Spectrum Laboratories Spectrapor Membrane	VWR	132129	dialysis tubing
ready-to-use dialysis cassettes	Thermo	66383	dialysis
one shot DH10B electrocompetent <i>E. coli</i>	invitrogen	C4040-52	transformation of ligation reactions
PureYield Plasmid Midiprep System	Promega	A2495	midiprep
peqGOLD Tissue DNA Mini Kit	Peqlab	12-3396-02	isolation of genomic DNA
SuperFect Transfection Reagent	Qiagen	301305	transfection of 116 cells
opti MEM (10% FBS)	Gibco	31985-062	transfection of 116 cells
iQ SYBR Green Supermix	BioRad	170-8882	q-PCR
CFX 96 C1000 touch	Biorad		qPCR machine
Phenol/Chloroform/Isoamyl alcohol	Carl Roth	A156.1	purification of DNA

Cesium chloride	Carl Roth	8627.1	density gradient centrifugation
sodium acetate 99%	Carl Roth	6773.2	DNA precipitation
LB medium	Carl Roth	X968.3	bacterial growth medium
ethanol 99.8% pure	Carl Roth	9065.5	DNA precipitation and washing
SDS 99.5%	Carl Roth	2326.2	lysis buffer
EDTA	Carl Roth	8043.2	lysis buffer
Tris-HCl 99%	Carl Roth	9090.3	dialysis buffer/ lysis buffer
glycerol 99.5%	Carl Roth	3783.1	dialysis buffer
MgCl ₂ 98.5%	Carl Roth	KK36.2	dialysis buffer
NaCl	Carl Roth	3957.1	optional dialysis buffer
KH ₂ PO ₄	Carl Roth	3904.2	optional dialysis buffer
sucrose	Carl Roth	9286.1	optional dialysis buffer
Na ₂ HPO ₄ ·2H ₂ O	Carl Roth	4984.2	optional dialysis buffer
1.5-ml tubes	sarstedt	72,730,005	storage of virus preparations at -80 °C