

Materials List for:

Production of High-Titer Infectious Influenza Pseudotyped Particles with Envelope Glycoproteins from Highly Pathogenic H5N1 and Avian H7N9 Viruses

Fengwei Zhang¹, Yanan Wang², Xuechai Shang¹, Shanshan Wang¹, Rong Xiao¹, Hongjuan Zhou¹, Long Cai¹

¹Central Laboratory, Hang Zhou Red Cross Hospital

²Clinical Laboratory, Yuhang District Maternity and Child Health Care Hospital

Correspondence to: Fengwei Zhang at tome_walker@zcmu.edu.cn, Long Cai at cailong@hz.cn

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Materials

Name	Company	Catalog Number	Comments
Benzonase Nuclease	Millipore	70664	Effective viscosity reduction and removal of nucleic acids from protein solutions
Clear Flat Bottom Polystyrene TC-treated Microplates (96-well)	Corning	3599	Treated for optimal cell attachment Sterilized by gamma radiation and certified nonpyrogenic Individual alphanumeric codes for well identification
Clear TC-treated Multiple Well Plates (6-wells)	Costar	3516	Individual alphanumeric codes for well identification Treated for optimal cell attachment Sterilized by gamma irradiation
Dulbecco's modified essential medium (DMEM)	Gibco	11965092	A widely used basal medium for supporting the growth of many different mammalian cells
Fetal bovine serum	Excell	FND500	fetal bovine sera that can offer excellent value for basic cell culture, specialty research, and specific assays
Fluorescence Activated Cell Sorting (FACS)	Beckman coulter	cytoflex	
Human alveolar adenocarcinoma A549 cells	ATCC	CRM-CCL-185	
Human embryonic kidney (HEK) HEK-293T/17 cells	ATCC	CRL-11268	A versatile transfection reagent that has been shown to effectively transfect the widest variety of adherent and suspension cell lines
Inverted fluorescent biological microscope	Olympus	BX51-32P01-FLB3	
Inverted light microscope	Olympus	CKX31-12PHP	
Lipofectamine 2000 Transfection Reagent	Invitrogen	11668019	Rapid, sensitive and precise probe-based qPCR detection and quantitation of target RNA targets.
Luna Universal Probe One-Step RT-qPCR Kit	NEB	E3006L	Will withstand up to 14,000 RCF RNase-/DNase-free Nonpyrogenic
Madin-Darby Canine Kidney (MDCK) cells	ATCC	CCL-34	
MaxyClear Snaplock Microcentrifuge Tube (1.5 mL)	Axygen	MCT-150-C	33 mm, gamma sterilized
Millex-HV Syringe Filter Unit, 0.45 µm, PVDF	Millipore	SLHV033RS	an improved Minimal Essential Medium (MEM) that allows for a

			reduction of Fetal Bovine Serum supplementation by at least 50% with no change in cell growth rate or morphology. Opti-MEM I medium is also recommended for use with cationic lipid transfection reagents, such as Lipofectamine reagent.
Opti-MEM I Reduced Serum Medium	Gibco	11058021	The antibiotics penicillin and streptomycin are used to prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria.
penicillin-streptomycin	Gibco	15140122	Maximum RCF is 12,500 xg Temperature range from -80 °C to 120 °C RNase-/DNase-free Sterile
PP Centrifuge Tubes (15 mL)	Corning	430791	a stable and highly reactive serine protease
Proteinase K	Beyotime	ST532	Treated for optimal cell attachment Sterilized by gamma radiation and certified nonpyrogenic
TC-treated Culture Dish (60mm)	Corning	430166	Trypsin from bovine pancreas TPCK Treated, essentially salt-free, lyophilized powder, ≥10,000 BAEE units/mg protein
TPCK-trypsin	Sigma	T1426	This liquid formulation of trypsin contains EDTA and phenol red. Gibco Trypsin-EDTA is made from trypsin powder, an irradiated mixture of proteases derived from porcine pancreas. Due to its digestive strength, trypsin is widely used for cell dissociation, routine cell culture passaging, and primary tissue dissociation. The trypsin concentration required for dissociation varies with cell type and experimental requirements.
Trypsin-EDTA (0.25%), phenol red	Gibco	25200056	