

Materials List for:

Purification of Viral DNA for the Identification of Associated Viral and Cellular Proteins

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Materials

Name	Company	Catalog Number	Comments
MRC-5 cells	ATCC	CCL-171	
Fetal Bovine Serum (FBS)	Gibco	26140-179	
Dulbecco's Modified Eagle Medium (DMEM)	Gibco	12800-082	Substituted with 10% FBS, 2 mM L-glutamine, 12 mM (for growth in flasks) or 30 mM (for growth in dishes) sodium-bicarbonate
600 cm ² tissue culture dish	Thermo Fisher Scientific	166508	
Tris Buffered Saline (TBS), pH 7.4			137 mM NaCl, 5 mM KCl, 491 mM MgCl, 680 mM CaCl, 25.1 mM Tricine
HSV-1 stock			Stocks with titers greater than 1x10 ⁹ PFU/mL work best
Sephadex G-25 column (PD-10 Desalting Column)	GE Healthcare	17085101	
Dimethyl sulfoxide (DMSO)	Fisher Scientific	D128-1	
5'-Ethynyl-2'-deoxycytidine (EdC)	Sigma-Aldrich	T511307	Dissolve in DMSO to prepare 40 mM stock, aliquot, and store at -20 °C
2'-deoxycytidine (deoxyC)	Sigma-Aldrich	D3897	Dissolve in water to prepare 40 mM stock, aliquot, and store at -20 °C
Nuclear Extraction Buffer (NEB)			Prepare fresh (20 mM Hepes pH 7.2, 50 mM NaCl, 3 mM MgCl ₂ , 300 mM Sucrose, 0.5% Igepal)
Cell scraper	Bellco glass	7731-22000	Autoclave before use
Trypan blue solution	Sigma-Aldrich	T8154	
PBS, pH 7.2 (10x)			1.37 M NaCl, 27 mM KCl, 100 mM Na ₂ HPO ₄ , 18 mM KH ₂ PO ₄ (dilute to 1x in sterile water before use)
Copper (II) sulfate pentahydrate (CuSO ₄ ·5H ₂ O)	Fisher Scientific	C489	Prepare 100 mM stock and store at 4 °C for up to 1 month
(+) Sodium L-ascorbate	Sigma-Aldrich	A4034	Freshly prepare 100 mM stock and store on ice until use
Biotin azide	Invitrogen	B10184	Prepare 10 mM stock in DMSO, aliquot, and store at -20 °C for up to 1 year
Click Reaction Mix			Prepare immediately before use by adding reagents in the indicated order (10 mL: 8.8 mL 1x PBS, 200 mL 100 mM CuSO ₄ , 25mL 10 mM Biotin Azide, 1 mL 100 mM sodium ascorbate)

Complete Protease Inhibitor Cocktail	Roche	11697498001	Dissolve in 1 mL water to prepare 50x stock, can store at 4 °C for up to 1 week, or directly add 1 pill to 50 mL buffer
Freezing buffer			Prepare fresh (7 mL 100% glycerol, 3 mL NEB, 200 µL 50x protease inhibitor)
Buffer B1			Prepare fresh (25 mM NaCl, 2 mM EDTA, 50 mM Tris-HCl pH 8, 1% Igepal, 1x protease inhibitor)
Buffer B2			Prepare fresh (150 mM NaCl, 2 mM EDTA, 50 mM Tris-HCl pH 8, 0.5% Igepal, 1x protease inhibitor)
Buffer B3			Prepare fresh (150 mM NaCl, 2 mM EDTA, 50 mM Tris-HCl pH 8, 1x protease inhibitor)
Vibra Cell Ultra Sonic Processor equipped with a 3 mm microtip probe	Sonics	VCX 130	
Cell strainer	Falcon	352360	
Dynabeads MyOne Streptavidin T1	Life Technologies	65601	
DynaMag-2 Magnet	Life Technologies	12321D	
Mini-Tube Rotator	Fisher Scientific	260750F	
2x Laemmli sample buffer			Mix 400 mg of SDS, 2 mL 100% glycerol, 1.25 mL of 1 M Tris (pH 6.8), and 10 mg of bromophenol blue in 8 mL water. Store at 4 °C for up to 6 months. Before use add 1 M DTT to a final concentration of 200 mM.
Cap locks for 1.5 mL tube	Fisher Scientific	NC9679153	
Standard western blotting reagents			
NOVEX Colloidal Blue Staining Kit	Invitrogen	LC6025	
12-well tissue culture dish	Corning	3513	
Coverslips	Fisher Scientific	12-545-100	Autoclave before use
Microscope slides	Fisher Scientific	12-552-5	
16% paraformaldehyde	Electron Microscopy Sciences	15710	Dilute to 3.7% in 1x PBS before use
Bovine serum albumin (BSA)	Fisher Scientific	BP1605	Prepare 3% in 1x PBS
Permeabilization buffer (0.5% Triton-X 100)	Sigma-Aldrich	T8787	Prepare 0.5% Triton-X 100 in 1x PBS
Click reaction cocktail - Click-iT EdU Alexa Fluor 488 Imaging Kit	Molecular Probes	C10337	Prepare according to manufacturer's protocol
Hoechst 33342	Life Technologies	H1399	Prepare 10 mg/mL in water, can store at 4 °C for up to 1 year
Mouse anti-ICP8 primary antibody	Abcam	ab20194	Use a 1:200 dilution in 1x PBS
Mouse anti-UL42 primary antibody (2H4)	Abcam	ab19311	Use a 1:200 dilution in 1x PBS
Goat anti-mouse 594-conjugated secondary antibody	Life Technologies	a11005	Use a 1:500 dilution in 1x PBS
Immu-mount	Thermo Fisher Scientific	9990402	
2x SDS-bicarb solution			2% SDS, 200 mM NaHCO ₃
Phenol:chloroform:isoamyl alcohol			Mix 25:24:1 at least 1 day before use, store at 4 °C in the dark

chloroform:isoamyl alcohol			Mix 24:1 at least 1 day before use, store at room temperature in the dark
10x Tris EDTA (TE), pH 8.0			100 mM Tris, 10 mM EDTA (dilute to 1x before use)
Qiaquick PCR purification kit	Qiagen	28104	
3 M sodium acetate pH 5.2			
Qubit 2.0 Fluorometer	Invitrogen	Q32866	
Qubit dsDNA HS Assay Kit	Invitrogen	Q32851	
Qubit assay tubes	Invitrogen	Q32856	
Fluorescence microscope equipped with imaging software			
Microcentrifuge for 1.5 mL tubes			
Tabletop centrifuge for 15 and 50 mL tubes			
Cell culture incubator			
Biosafety cabinet			
Heat blocks			65 °C and 95 °C