

Materials List for

# Engineering Antiviral Agents *via* Surface Plasmon Resonance

Irene Maier<sup>1,2</sup>

<sup>1</sup>Department of Environmental Health Sciences, University of California, Los Angeles <sup>2</sup>Department of General Surgery, Medical University of Vienna

## Corresponding Author

Irene Maier  
irene.maier@meduniwien.ac.at

## Citation

Maier, I. Engineering Antiviral Agents *via* Surface Plasmon Resonance. *J. Vis. Exp.* (184), e63541, doi:10.3791/63541 (2022).

## Date Published

June 14, 2022

## DOI

10.3791/63541

## URL

jove.com/video/63541

## Materials

Name	Company	Catalog Number	Comments
Äkta primeplus	Cytiva		
Amicon tubes	Merck	C7715	
Ampillicin	Sigma-Aldrich	A5354	
Beckmann Coulter Cooler Allegra X-30R centrifuge	Beckman Coulter	B06320	
Cell spreader	Sigma-Aldrich	HS86655	silver stainless steel, bar L 33 mm
Custom DNA Oligos	Sigma-Aldrich	OLIGO	
Custom Gensynthesis	GenScript	#1390661	cloning vector: pET27b(+)
Cytiva HBS-EP+ Buffer 10, 4x50mL	Thermo Scientific	50-105-5354	
Dionex UltiMate 3000	Thermo Scientific	IQLAAAGABHFAPBMBFB	
Dpn I restriction enzyme (10 U/μL)	Fisher Scientific	ER1701	
DTT	Merck	DTT-RO	
EDC	Merck	39391	
EDTA	Merck	E9884	
Eppendorf Safe-Lock Tubes	Eppendorf	30120086	
Eppendorf Safe-Lock Tubes	Eppendorf	30120094	
Eppendorf Minispin and MiniSpin Plus personal microcentrifuge	Sigma-Aldrich	Z606235	
Ethanol	Merck	51976	
Ethanolamine HCl	Merck	E6133	
Falcon 50mL Conical Centrifuge Tubes	Fisher Scientific	14-432-22	
Falcon 14 mL Round Bottom Polystyrene Test Tube, with Snap Cap, Sterile, 25/Pack	Corning	352057	
Glucose	Merck	G8270	
Glycine HCl	Merck	55097	
HA H3 protein	Abcam	ab69751	
HEPES	Merck	H3375	
His-select Ni <sup>2+</sup>	Merck	H0537	

Imidazole	Merck	I2399	
IPTG	Merck	I6758	
Kanamycin A	Sigma-Aldrich	K1377	
Kromasil 300-5-C4	Nouryon		
LB agar	Merck	52062	
LB agar	Merck	19344	
LB Lennox	Merck	L3022	
Lysozyme	Merck	10837059001	
Magnesium chloride	Merck	M8266	
Magnesium sulfate	Merck	M7506	
NaH <sub>2</sub> P0 <sub>4</sub>	Merck	S0751	
NanoDrop UV-Vis2000c spectrophotometer	Thermo Scientific	ND2000CLAPTOP	
NaOH	Merck	S5881	
NHS	Merck	130672	
NZ amine (casein hydrolysate)	Merck	C0626	
PBS	Merck	806552	
PD MidiTrap G-10	Sigma-Aldrich	GE28-9180-11	
Peptone	Merck	70171	
pET11a	Merck Millipore (Novagen)	69436	
PMSF	Merck	PMSF-RO	
QIAprep Spin Miniprep Kit (1000)	Qiagen	27106X4	
Reichert Software Package Autolink1-1-9	Reichert		
Reichert SPR SR7500DC Dual Channel System	Reichert		
Scrubber2-2012-09-04 for data analysis	Reichert		
SDS	Merck	11667289001	
Site-directed mutagenesis kit incl pUC18 control plasmid	Stratagene	#200518	
Sodium chloride	Merck	S9888	
Sodium acetate.Trihydrate	Merck	236500	
SPR sensor chip C19RBDHC30M	XanTec bioanalytics	SCR C19RBDHC30M	
SPR sensor chip CMD500D	XanTec bioanalytics	SCR CMD500D	
Sterilin Standard 90mm Petri Dishes	Thermo Scientific	101R20	
TBS	Merck	T5912	10x, solution
Triton-X100	Merck	T8787	
Tryptone	Merck	93657	
Tween20	Merck	P1379	
Vortex-Genie 2 Mixer	Merck	Z258423	
X-gal	Merck	XGAL-RO	
XL1-Blue Supercompetent Cells	Stratagene	#200236	
Yeast extract	Merck	Y1625	