

Materials List for:

Scalable High Throughput Selection From Phage-displayed Synthetic Antibody Libraries

Shane Miersch^{1,2}, Zhijian Li^{1,2}, Rachel Hanna^{1,2}, Megan E. McLaughlin^{1,2}, Michael Hornsby^{1,3}, Tet Matsuguchi^{1,3}, Marcin Paduch^{1,4}, Annika Sääf^{1,4}, Jim Wells^{1,3}, Shohei Koide^{1,4}, Anthony Kossiakoff^{1,4}, Sachdev S. Sidhu^{1,2}

¹The Recombinant Antibody Network

²The Banting and Best Department of Medical Research, University of Toronto

³Antibiome Center, University of California, San Francisco at Mission Bay

⁴Department of Biochemistry and Molecular Biology, The University of Chicago

Correspondence to: Shane Miersch at shanemiersch@gmail.com

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Materials

Name	Company	Catalog Number	Comments
MATERIALS			
New Brunswick Innova44 stackable incubator shaker	Eppendorf	M1282-0004	
Liquidator 96 channel manual benchtop pipetting system	Anachem Ltd	LIQ-96-200	
Microplate shaker	VWR	12620-926	
ThermoScientific Sorvall ST-40 benchtop centrifuge	Thermo Product	75004525	
ELx405 Select Deep Well Microplate Washer	Biotek	ELX405USD	
Custom High Throughput Automated Phage Selection Robot	S&P Robotics		
Plastic conical Falcon tube: 50 ml	VWR	21008-178	
Plastic conical Falcon tube: 15 ml	VWR	89039-668	
Axygen 1.7 ml microcentrifuge tubes	Corning	MCT-175-L-C	
96-well/384-well Maxisorp plate	Sigma	M9410-1CS	
Corning 96-well V-bottom deep-well block	Corning	3960	
Axygen Mini-tube 96-well sterile microplate blue box	Corning	AXY-MTS-06-C-R-S	
Breathable adhesive plate sealing film	VWR	60941-084	
REAGENTS			
Name	Company	Catalog Number	
polyethylene glycol	Bioshop	PEG800.1	
yeast extract	Bioshop	YEX401.1	
bio-tryptone	Bioshop	TRP402.1	
N-Z amine	Sigma	C7290	
glucose	Sigma	G8270-1KG	
lactose	Bioshop	LAC234	
glycerol	Bioshop	GLY001.500	
carbenicillin	Bioshop	CAR544.10	
kanamycin	Bioshop	KAN201.25	

tetracycline	Bioshop	TET701.25	
Tween 20	Bioshop	TWN510.500	
monobasic potassium phosphate	Bioshop	PPM302.1	
dibasic sodium phosphate	Anachemia	84486-440	
sodium chloride	Bioshop	SOD001.10	
potassium chloride	Bioshop	POC308.1	
calcium chloride	Bioshop	CCL302.500	
magnesium sulphate	EMD	MX0070-1	
magnesium chloride	Bioshop	MAG510.500	
NH ₄ Cl	Amresco	0621-1KG	
Na ₂ SO ₄	Bioshop	SOS513.500	
agar	Bioshop	AGR001.500	
SybrSafe DNA gel stain	Invitrogen	S33102	
phosphoric acid	Acros Organics	201140010	
lysozyme	Bioshop	LYS702.25	
benzonase	Novagen	71205	
Triton X-100		Bioshop	TRX506.500
protease inhibitor cocktail tablets	Roche	11 836 170 001	
Ni-NTA resin	Qiagen	1018240	
1,000x helper phage (M13K07) stock (10 ¹³ phage per ml)	NEB	N0315S	
HRP conjugated M13-specific antibody (anti-M13-HRP).	GE Healthcare	27-9241-01	
TMB substrate: mix equal volumes of TMB and H ₂ O ₂ peroxidase substrate	KPL	50-76-00	
dNTPs	Biobasic	DD0056	
Taq polymerase	Genscript	E00007	
Exonuclease	GE Healthcare	EZ0073X-EZ	
Shrimp alkaline phosphatase	GE Healthcare	E70092Z-EZ	