

Materials List for

Enzyme-Linked Immunosorbent Assay to Verify Chemically-Coupled Antibody-Antigen Conjugates

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Materials

Name	Company	Catalog Number	Comments
Blocking buffer (ELISA)			10 % FBS in PBS
Cell culture flask T25	Greiner Bio-One	690175	we use standard CELLSTAR filter cap cell culture flasks; alternatively use suspension culture flask (690195)
Cell culture flask T75	Greiner Bio-One	658175	we use standard CELLSTAR filter cap cell culture flasks; alternatively use suspension culture flask (658195)
Cell culture flask T175	Greiner Bio-One	661175	we use standard CELLSTAR filter cap cell culture flasks; alternatively use suspension culture flask (661195)
Centrifugal concentrator MWCO 10 kDa	Sartorius	VS2001	Vivaspin 20 centrifugal concentrator
Centrifugal protein concentrator MWCO 100 kDa, 5 - 20 ml	Thermo Fisher Scientific	88532	Pierce Protein Concentrator, PES 5 -20 ml; we use the Pierce Concentrator 150K MWCO 20mL (catalog number 89921), which is however no longer available
Centrifuge bottles	Nalgene	525-2314	PPCO (polypropylene copolymer) with PP (polypropylene) screw closure, 500 ml; obtained from VWR, Germany
Coating buffer (ELISA)			0.1 M sodium bicarbonate (NaHCO ₃) in H ₂ O (pH 9.6)
Desalting columns MWCO 7 kDa	Thermo Fisher Scientific	89891	Thermo Scientific Zeba Spin Desalting Columns, 7K MWCO, 5 mL
Detection reagent ELISA (HRPO substrate)	Sigma-Aldrich/Merck	T8665-100ML	3,3',5,5'-Tetramethylbenzidine (TMB) liquid substrate system
ELISA 96-well plate	Thermo Fisher Scientific	442404	MaxiSorp Nunc-Immuno Plate
Fetal calf serum	PAN-BIOtech	P40-47500	FBS Good forte
ISF-1 medium	Biochrom/bioswissstec	F 9061-01	
NLDC-145 hybridoma	ATCC	HB-290	if not already at hand, the hybridoma cells can be acquired from ATCC
Ovalbumin	Hyglos (via BioVendor)	321000	EndoGrade OVA ultrapure with <0.1 EU/mg
Penicillin/Streptomycin	Thermo Fisher Scientific	15140122	Gibco Penicillin/Streptomycin 10.000 U/ml; alternatively Gibco Penicillin/Streptomycin 5.000 U/ml (15070-063) can be used
PETG polyethylene terephthalate glycol cell culture roller bottles	Nunc In Vitro	734-2394	standard PDL-coated, vented (1.2X), 1050 cm ² , 100 - 500 ml

			volume; obtained from VWR, Germany
pH indicator strips	Merck	109535	pH indicator strips 0-14
Polyclonal goat anti-IgG+IgM-HRPO antibody (ELISA)	Jackson ImmunoResearch	112-035-068	obtained from Dianova, Germany; used at 1:2000 for ELISA
Polyclonal rabbit α OVA (ELISA)	Abcam	ab181688	used at 3 ng/ μ l
Protein G Sepharose column	Merck/Millipore	P3296	5 ml Protein G Sepharose, Fast Flow are packed onto an empty column PD-10 (Merck, GE 17-0435-01)
Rubber plug	Omnilab	5230217	DEUTSCH & NEUMANN rubber stoppers (lower Φ 17 mm; upper Φ 22 mm)
Silicone tube	Omnilab	5430925	DEUTSCH & NEUMANN (inside Φ 1 mm; outer Φ 3 mm)
Slim-Fast			we have used regular Slim-Fast Chocolate freely available at the pharmacy as in this western blot approach it yielded better results than milk powder
Stopping solution (ELISA)			1M H ₂ SO ₄
Sulfo-SMCC	Thermo Fisher Scientific	22322	Pierce Sulfo-SMCC Cross-Linker; alternatively use catalog number A39268 (10 x 2 mg)
Syringe filter unit 0.22 μ m	Merck/Millipore	SLGV033RS	Millex-GV Syringe Filter Unit, 0.22 μ m, PVDF, 33 mm, gamma sterilized
Syringe 10 ml	Omnilab		Disposable syringes Injekt® Solo B.Braun
Sterican® cannulas	B. Braun		Sterican® G 20 x 1 1/2"; 0.90 x 40 mm; yellow
TCEP-HCl	Thermo Fisher Scientific	A35349	
Tubing connector	Omnilab		Kleinfeld miniature tubing connectors for silicone tube