

Materials List for:

Covalent Binding of Antibodies to Cellulose Paper Discs and Their Applications in Naked-eye Colorimetric Immunoassays

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Materials

Name	Company	Catalog Number	Comments
Cellulose filter paper, Grade 1 (medium flow filter paper)	GE Healthcare Pte Ltd Singapore	1001 110	
Cellulose filter paper, Grade 113 (Fast flow filter paper)	Sigma-Aldrich, Singapore	1113-320	
Glutaraldehyde	Sigma-Aldrich, Singapore	G6257	Grade II, 25% in H ₂ O
Surfactant	Tween-20, Sigma-Aldrich, Singapore	P2287	
Bovine serum album	Sigma-Aldrich, Singapore	A2153	
Skimmed milk powder	Louis François		Packed by Kitchen Capers, Singapore
Tris base	Promega	H5135	
Sodium periodate	Merck	106597	
Na ₂ HPO ₄	Merck	106585	
KH ₂ PO ₄	Merck	104873	
NaCl	CALBIOCHEM	567441	
NaOH	Merck	106462	
HCl	Merck	100317	
phosphate buffer saline (PBS)	N/A	N/A	PBS, containing 137 mmol/L NaCl, 2.7 mmol/L KCl, 8.0 mmol/L Na ₂ HPO ₄ and 1.5 mmol/L KH ₂ PO ₄ , is prepared with water and adjusted to pH 7.4 with 0.1 mol/L NaOH or 0.1 mol/L HCl
Acetone	Tee Hai Chem Pte Ltd Singapore	9005-68	
Mixture of TMB and hydrogen peroxide solution	1-Step ultra TMB-ELISA solution , Thermo Scientific Pierce	34029	1 L
Rabbit anti-human IgG-FITC	TWC/Bio Pte Ltd Singapore	sc-2278	
Peroxidase conjugated goat anti-rabbit IgG	TWC/Bio Pte Ltd Singapore	sc-2030	
Affinity purified goat anti-Mouse IgG-Fc coating antibody	Bethyl Laboratories, Inc	A90-131A	
Mouse reference serum	Bethyl Laboratories, Inc	RS10-101-5	9.5 mg/ml
HRP conjugated goat anti-mouse IgG-Fc detection antibody	Bethyl Laboratories, Inc	A90-131P	
Equipment			
Fourier transform infrared spectrophotometer	Shimadzu IR Prestige-21	N/A	

Fluorescence molecular imager	Pharos FXTM plus molecular imager, Bio-Rad, Singapore	N/A	
Oven	NUVE FN500	N/A	
Turbo mixer VM-2000	MYC LTD	N/A	
ImageJ	RGB, free download	N/A	