

Materials List for:

A Macrophage Reporter Cell Assay to Examine Toll-Like Receptor-Mediated NF- κ B/AP-1 Signaling on Adsorbed Protein Layers on Polymeric Surfaces

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Materials

Name	Company	Catalog Number	Comments
Cell culture reagents			
anti-mouse/human CD282 (TLR2)	Biologend	121802	
CLI-095 (TLR4 inhibitor)	Invivogen	TLRL-CLI95	
C57 complement plasma K2 EDTA 10ml, innovative grade US origin	InnovativeResearch	IGMSC57-K2 EDTA-Compl-10ml	Mouse plasma
Dulbecco's modified eagle medium (DMEM)	Sigma Aldrich	D6429-500ML	
Dulbecco's phosphate buffered saline (DPBS)	Fisher Scientific	14190250	No calcium, no magnesium
Fetal bovine serum (FBS), research grade	Wisent	98150	
LPS-EK	Invivogen	TLRL-EKLPS	Lipopolysaccharide from Escherichia coli K12
NIH/3T3 fibroblasts	ATCC	CRL-1658	
Pam3CSK4	Invivogen	tlr1-pms	Synthetic triacylated lipopeptide - TLR1/2 ligand
Penicillin/streptomycin	Sigma Aldrich	P4333-100ML	
Plasmocin	Invivogen	ANT-MPP	Mycoplasma elimination reagent
RAW-Blue cells	Invivogen	raw-sp	NF- κ B/AP-1 reporter macrophage cell line
Trypan blue solution, 0.4%	Fisher Scientific	15250061	
TryPLE express enzyme (1X)	Fisher Scientific	12604021	animal origin-free recombinant cell dissociation enzyme
Zeocin	Invivogen	ANT-ZN-1	
Kits and assays			
ELISA precoated plates, mouse IL-6	Biologend	B213022	
ELISA precoated plates, mouse TNF- α	Biologend	B220233	
Endotoxin (Escherichia coli) - Control standard endotoxin (CSE)	Associates of Cape Cope Inc.	E0005-5	Endotoxin for standard curve in chromogenic endotoxin assay
LAL water, 100 mL	Associates of Cape Cope Inc.	WP1001	Used with chromogenic endotoxin assay
Micro BCA protein assay	Fisher Scientific	PI23235	
Limulus ameocyte lysate (LAL) Pyrochrome endotoxin test kit	Associates of Cape Cope Inc.	C1500-5	Chromogenic endotoxin assay reagent
QUANTI-Blue alkaline phosphatase detection medium	Invivogen	rep-qb2	Alkaline phosphatase assay to indirectly measure NF- κ B/AP-1 activity

Polymeric coating reagents			
Chloroform, anhydrous	Sigma Aldrich	288306-1L	
Ethyl alcohol anhydrous	Commercial Alcohols	P006EAAN	Sigma: Reagent alcohol, anhydrous, 676829-1L
Straight tapered fine tip forceps	Fisher Scientific	16-100-113	
Fluorinert FC-40 solvent	Sigma Aldrich	F9755-100ML	Fluorinated solvent for fPTFE
Cell culture grade water (endotoxin-free)	Fisher Scientific	SH30529LS	
Poly(methyl methacrylate) (PMMA)	Sigma Aldrich	182230-25G	
Sylgard 184 elastomer kit	Fisher Scientific	50822180	
Teflon-AF (fPTFE)	Sigma Aldrich	469610-1G	Poly[4,5-difluoro-2,2-bis(trifluoromethyl)-1,3-dioxole-co-tetrafluoroethylene]
Consumables			
Adhesive plate seals	Fisher Scientific	AB-0580	
Axygen microtubes, 1.5 mL	Fisher Scientific	14-222-155	
Borosilicate glass scintillation vials, with white polypropylene caps	Fisher Scientific	03-337-4	
Clear PS 48-well plate	Fisher Scientific	08-772-52	
Clear TCPS 96-well plate	Fisher Scientific	08-772-2C	
Clear TCPS 48-well plate	Fisher Scientific	08-772-1C	
Cover glasses, circles	Fisher Scientific	12-545-81	
Falcon tissue culture treated flasks, T25	Fisher Scientific	10-126-10	
sticky-Slide 8 Well	Ibidi	80828	
Superfrost microscope slides	Fisher Scientific	12-550-15	
Tissue culture treated flasks, T150	Fisher Scientific	08-772-48	