

Materials List for:

# Opsono-Adherence Assay to Evaluate Functional Antibodies in Vaccine Development Against *Bacillus anthracis* and Other Encapsulated Pathogens

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URL: <https://www.jove.com/video/60873>

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## Materials

Name	Company	Catalog Number	Comments
0.20 µm syringe filter (25mm, regenerated cellulose)	Corning, Corning, NY	431222	
10 mL syringe (Luer-Lok tip)	BD, Franklin Lakes, NJ	302995	
15µ 96 well black plates (plate #1 for imaging)	In Vitro Scientific, Sunnyvale, CA	P96-1-N	
16% paraformaldehyde	Electron Microscopy Science, Hatfield, PA	15710	
75 cm sq. tissue culture treated flask	Corning, Corning, NY	430641	
Agar (powder)	Sigma-Aldrich, St. Louis, MO	A1296	
Baby Rabbit Complement	Cedarlane Labs, Burlington, NC	CL3441	
Bacto Yeast Extract	BD, Sparks, MD	288620	
BBL Brain Heart Infusion (BHI)	BD, Sparks, MD	211059	
Blood Agar (TSA with Sheep Blood) plates	Remel, Lenexa, KS	R01198	
Cell scraper	Sarstedt, Newton, NC	83.183	
Costar 96 well cell culture plates (plates #2 & 3 for dilutions)	Corning, Corning, NY	3596	
Cover glass	Electron Microscopy Science, Hatfield, PA	72200-10	
Difco Nutrient Broth	BD, Sparks, MD	234000	
Dulbecco's Modified Eagle Medium (DMEM), high glucose	Gibco, Thermo Fisher Scientific, Waltham, MA	11965-092	contains 4500 mg/L glucose, 4 mM L-glutamine, Phenol Red
EVOS FL Auto Cell Imaging System (fluorescence microscope)	Life Technologies, Thermo Fisher Scientific, Waltham, MA	AMAFD1000	
Fetal Bovine Serum	Hyclone, GE Healthcare Life Sciences, South Logan, UT	SH30071.03	not gamma irradiated, not heat inactivated
Fluorescein isothiocyanate	Invitrogen, Thermo Fisher Scientific, Waltham, MA	F143	
HCS Cell Mask Orange Cell Stain	Invitrogen, Thermo Fisher Scientific, Waltham, MA	H32713	
hemocytometer (Improved Neubauer)	Hausser Scientific, Horsham, PA	3900	
India Ink solution	BD, Sparks, MD	261194	
L- glutamine (200 mM)	Gibco, Thermo Fisher Scientific, Waltham MA	25030081	supplement medium with additional 2mM L-glutamine

Nikon Eclipse TE2000-U (inverted compound microscope)	Nikon Instruments, Melville, NY	TE2000	
PBS without Calcium or Magnesium	Lonza, Walkersville, MD	17-516F	
Penicillin-Streptomycin Solution, 100x	Hyclone, GE Healthcare Life Sciences, South Logan, UT	SV30010	
petri dishes (100 x 15 mm)	Falcon, Corning, Durham, NC	351029	for agar plates
RAW 264.7 macrophage cell line (Tib47)	ATCC, Manassas, VA	ATCC TIB-71	
Slides	VWR, Radnor, PA	16004-422	
Sodium Bicarbonate	Sigma-Aldrich, St. Louis, MO	S5761	
Trypan Blue Solution (0.4%)	Sigma-Aldrich, St. Louis, MO	T8154	
Zeiss 700 Laser Scanning Microscopy (confocal microscope)	Carl Zeiss Microimaging, Thornwood, NY	4109001865956000	