

Materials List for:

Biomolecular Detection employing the Interferometric Reflectance Imaging Sensor (IRIS)

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Materials

Name	Company	Catalog Number	Comments
Silicon wafers with 500 nm of thermally-grown silicon dioxide	Silicon Valley Microelectronics		
Ammonium sulfate powder	Sigma-Aldrich	A5132	
Phosphate buffered saline (PBS) 10X ready concentrate	Fisher Scientific	BP665-1	
Antibody to human serum albumin (Anti-HSA)	Sigma-Aldrich	A0433	
Human serum albumin (HSA)	Sigma-Aldrich	A9511	
Argon or nitrogen gas (ultra-high purity)	Airgas	AR UHP300 or NI UHP300	
Petri dishes, 60 mm x 15 mm	Fisher Scientific	0875713A	
Scienceware® vacuum desiccator	Sigma-Aldrich	Z119016	
Microcentrifuge tubes	Fisher Scientific	05-408-120	
96-well plates, low cell binding	Nalge Nunc international	145399	
BioOdyssey Calligrapher MiniArrayer	Bio-Rad		
Tween-20	Sigma-Aldrich	P1379	
Ethanolamine	Sigma-Aldrich	398136	
Hydroxylamine	Thermo Fisher Scientific, Inc.	26103	
Multi-purpose rotator, model # 2314	Thermo Fisher Scientific, Inc.	2314Q	
Retiga 2000R camera	QImaging	01-RET-2000R-F-M-12	
AcuLED illumination source	PerkinElmer, Inc.		
Optical components (lenses, objectives, apertures, rails, posts, etc.)	Thorlabs Inc.		