

Materials List for

# Electric Cell-Substrate Sensing for Real-Time Evaluation of Metal-Organic Framework Toxicological Profiles

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## Materials

Name	Company	Catalog Number	Comments
4-[3-(4-idophenyl)-2-(4-nitrophenyl)-2H-5-tetrazolio]-1,3-benzene disulfonate (WST-1 assay)	Roche	5015944001	
0.25% Trypsin-EDTA (1x)	Gibco	25255-056	
100 mm plates	Corning	430167	
1300 Series A2 biofume hood	Thermo Scientific	323TS	
2510 Branson bath sonicator	Process Equipment & Supply, Inc.	251OR-DTH	
2-methylimidazole, 97%	Alfa Aesar	693-98-1	
5 mL sterile microtube	Argos Technologies	T2076S-CA	
50 mL tubes	Falcon	352098	
96W10idf well plates	Applied Biophysics	96W10idf PET	
96-well plates	Fisherbrand	FB012931	
Biorender	Biorender	N/A	
Countess cell counting chamber slides	Invitrogen	C10283	
Countess II FL automated cell counter	Life Technologies	C0916-186A-0303	
Denton Desk V sputter and carbon coater	Denton Vacuum	N/A	
Dimethyl sulfoxide	Corning	25-950-CQC	
DPBS/Modified	Cytiva	SH30028.02	
Dulbecco's modified Eagle medium	Corning	10-014-CV	
ECIS-ZO	Applied Biophysics	ABP 1129	
Excel	Microsoft	Version 2301	
Falcon tubes (15 mL)	Corning	352196	
Fetal bovine serum	Gibco	16140-071	
FLUOstar OPTIMA plate reader	BMG LABTECH	413-2132	
GraphPad Prism Software (9.0.0)	GraphPad Software, LLC	Version 9.0.0	

HERAcell 150i CO <sub>2</sub> Incubator	Thermo Scientific	50116047	
Hitachi S-4700 Field emission scanning electron microscope equipped with energy dispersive X-ray	Hitachi High-Technologies Corporation	S4700 and EDAX TEAM analysis software	
ImageJ software	National Institutes of Health	N/A	
Immortalized human bronchial epithelial cells	American Type Culture Collection	CRL-9609	
Isotemp freezer	Fisher Scientific		
Methanol, 99%	Fisher Chemical	67-56-1	
Parafilm sealing film	The Lab Depot	HS234526A	
Penicillin/Streptomycin	Gibco	15140-122	
Sorvall Legend X1R Centrifuge	Thermo Scientific	75004220	
Sorvall T 6000B	DU PONT	T6000B	
Trypan blue, 0.4% solution in PBS	MP Biomedicals, LLC	1691049	
Vacuum Chamber	Belart	999320237	
Zinc Nitrate Hexahydrate, 98% extra pure	Acros Organic	101-96-18-9	