

Materials List for

Using Real-Time Cell Metabolic Flux Analyzer to Monitor Osteoblast Bioenergetics

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Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin EDTA	Sigma-Aldrich	T4049	
2-cyano-3-(1-phenyl-1H-indol-3-yl)-2-propenoic acid	Sigma - Aldrich	PZ0160	UK5099
Antimycin A	Sigma - Aldrich	A8674	
Ascorbic acid	Sigma-Aldrich	A4544-100G	
Bis-2-(5-phenylacetamido-1,3,4-thiadiazol-2-yl)ethyl sulfide	Sigma - Aldrich	SML0601	BPTES
Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone	Sigma - Aldrich	C2920	FCCP
Cytation 5 imaging reader	BioTek	N/A	Microplate imager
Etomoxir sodium salt hydrate	Sigma - Aldrich	E1905	
Hoechst 33342 Solution (20 mM)	Thermo Scientific	62249	
Insulin	Sigma - Aldrich	I6634	
Oleic Acid-Albumin from bovine serum	Sigma - Aldrich	O3008	
Oligomycin A - 5 mg	Sigma - Aldrich	75351	
Rotenone	Sigma - Aldrich	R8875-1G	
Seahorse XF 1.0 M Glucose Solution	Agilent Technologies	103577-100	
Seahorse XF 100mM Pyruvate Solution	Agilent Technologies	103578-100	
Seahorse XF 200mM Glutamine solution	Agilent Technologies	103579-100	
Seahorse XF DMEM media	Agilent Technologies	103575-100	DMEM assay media with 5mM HEPES, pH 7.4, without phenol red, sodium bicarbonate, glucose, pyruvate, and L-glutamine
Seahorse XFe96 Analyzer	Agilent Technologies	S7800B	Real- Time Metabolic flux analyzer
Seahorse XFe96 FluxPak	Agilent Technologies	102416-100	Includes XFe96 Sensor cartridges, Cell culture microplates, and Seahorse XF Calibrant solution
The Cell imaging 1.1.0.11 software	Agilent Technologies - BioTek		

Wave software 2.6.1	Agilent Technologies		
β -glycerol phosphate	Sigma-Aldrich	G9422-50G	