

Materials List for:

Use of Electron Paramagnetic Resonance in Biological Samples at Ambient Temperature and 77 K

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Materials

Name	Company	Catalog Number	Comments
DMEM	LifeTech	10566-016	cell culture media
Diethylenetriaminepentaacetic acid (DTPA)	Sigma Aldrich	D6518-5G	
sodium chloride (NaCl)	Fisher Scientific	BP358-212	used to prepare 50 mM phosphate saline buffer according to Sigma aldrish
potassium phosphate dibasic (HK ₂ PO ₄)	Fisher Scientific	BP363-500	used to prepare 50 mM phosphate saline buffer according to Sigma aldrish
potassium phosphate monobasic (KH ₂ PO ₄)	Sigma Aldrich	P-5379	used to prepare 50 mM phosphate saline buffer according to Sigma aldrish
Krebs-Henseleit buffer (KHB)	(Alfa Aesar, Hill)	J67820	
Bovine erythrocyte superoxide dismutase (SOD)	Sigma Aldrich	S7571-30KU	
Phorbol 12-myristate 13-acetate (PMA)	Sigma Aldrich	P1585-1MG	Dissolve in DMSO
Antimycin A (AA)	Sigma Aldrich	A8674-25MG	DISSolve in Ethanol and store in glass vials
1-Hydroxy-3-methoxycarbonyl-2,2,5,5-tetramethylpyrrolidine . HCl (CMH)	Enzo Life Sciences	ALX-430-117-M050	
1-Hydroxy-3-carboxy-2,2,5,5-tetramethylpyrrolidine . HCl (CPH)	Enzo Life Sciences	ALX-430-078-M250	
1-Hydroxy-4-[2-(triphenylphosphonio)acetamido]-2,2,6,6-tetramethylpiperidine, 1-Hydroxy-2,2,6,6-tetramethyl-4-[2-(triphenylphosphonio)acetamido]piperidinium dichloride (mito-TEMPO-H)	Enzo Life Sciences	ALX-430-171-M005	
1-Hydroxy-2,2,6,6-tetramethylpiperidin-4-yl-trimethylammonium chloride . HCl (CAT1H)	Enzo Life Sciences	ALX-430-131-M250	
Heparin	Sagent Pharmaceuticals	NDC 25021-400-10	
Diphenyliodonium chloride	Sigma Aldrich	43088	
Deferoxamin mesylate salt	Sigma Aldrich	D9533-1G	
Critoseal	Leica	39215003	

BRAND disposable BLAUBRAND micropipettes, intraMark	Sigma Aldrich	708733	Capillaries
PTFE FRACTIONAL FLUOROPOLYMER TUBING 3/16" OD x 1/8" ID	NORELL	1598774A	Teflon tubing
SILICONE RUBBER STOPPERS FOR NMR SAMPLE TUBES FOR THIN WALL TUBES HAVING AN OD OF 4mm-5mm (3.2mm TO 4.2mm ID) TS-4-5-SR	NORELL	94987	
EMXnano Bench-Top EPR spectrometer	Bruker BioSpin GmbH	E7004002	
EMX NANO TISSUE CELL	Bruker BioSpin GmbH	E7004542	