

Materials List for:

Hyperpolarized ^{13}C Metabolic Magnetic Resonance Spectroscopy and Imaging

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Materials

Name	Company	Catalog Number	Comments
HyperSense DNP Polariser	Oxford Instruments		3.35 T preclinical DNP hyperpolarizer
GE/Agilent MR901	GE Healthcare/Agilent Technologies		7 T preclinical MRI scanner, with small bore designed for experiments on rodent
Spinsolve Carbon	Magritek		1 T NMR spectrometer with permanent magnet
Deuterium Oxide	Sigma Aldrich	7789-20-0	
Sodium phosphate dibasic	Sigma Aldrich	7558-79-4	
Sodium phosphate monobasic	Sigma Aldrich	7558-80-7	
Sodium hydroxide	Sigma Aldrich	1310-73-2	
Disodium edetate	Sigma Aldrich	6381-92-6	
Pyruvic acid - $^{13}\text{C}_1$	Cambridge Isotopes Laboratories	CLM-8077-1	
Dotarem (0.5 mmol/L)	Guerbet		gadoterate meglumine
tris (8-carboxy-2,2,6,6-tetra-(hydroxyethyl)-benzo-[1,2-4,5]-bis-(1,3)-dithiole-4-yl)-methyl sodium salt (OX063)	GE Healthcare		trityl radical used as a source of free electron
PC3 cell line	ATCC	CRL1435	
F-12K medium	ATCC	30-2004	
Fetal Bovine Serum	ATCC	SCRR-30-2020	
Trypsine-EDTA Solution, 1x	ATCC	30-2101	
Sample plastic cup	Oxford Instruments		
Trypan blue	Bio-Rad	145-0013-MSDS	