

Materials List for:

A Dual Tracer PET-MRI Protocol for the Quantitative Measure of Regional Brain Energy Substrates Uptake in the Rat

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Materials

Name	Company	Catalog Number	Comments
MRI scanner	Varian		7 Tesla
Small-animal PET scanner	Gamma Medica		Lab-PET/-Triumph
Heat mat	Sunbeam	PN 143937	
Heater system	SA Instruments	761 100 Rev B	
Respiratory gating	SA Instruments	SAIL's P-resp	
Clinical chemistry analyzer	Siemens Healthcare Diagnosis	765000.931	Dimension Xpand Plus
Polyethylene tubing 50	Becton Dickinson	427411	
Injection pump	KD Scientific	Model 210	
Gamma-counter	GMI	Packard Cobra II	
Centrifuge	Thermo Scientific	75002416	Heraeus Pico 21
PMOD software	PMOD Technologies		PMOD 3.2 version
Geiger counter	Fluke Biomedical	ASM-990	Advanced Survey Meter
Reagent			
Isoflurane	Abbott Laboratories, Ltd	B506	
0.9% NaCl solution	Hospira	4888010	
Heparin	Sandoz	1004336	
Isopropenyl acetate	Aldrich	11778	99%
Methylithium	Aldrich	197343	1.6 M
THF	Aldrich	87371	
Flex reagent cartridge glucose	Siemens Healthcare Diagnosis	DF40	
Trizma base	Sigma	T6066-500G	prepare tris buffer 100 mM pH 7.0
Sodium oxamate	Sigma	O2751	20 mM
NADH	Roche	10128015001	0.15 mM
b-Hydroxybutyrate dehydrogenase	Toyobo	HBD-301	1 U/ml