

Materials List for:

Investigations on the Ga(III) Complex of EOB-DTPA and Its ⁶⁸Ga Radiolabeled Analogue

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Materials

Name	Company	Catalog Number	Comments
primovist	Bayer	-	0.25 M
gallium(III) chloride	Sigma-Aldrich Co.	450898	
water (deionized)	-	-	tap water deionizing equipment by Auma-Tec GmbH
hydrochloric acid 12 M	VWR	20252.29	
sodium hydroxide	Polskie Odczynniki Chemiczne S.A.	810925429	
oxalic acid	Sigma-Aldrich Co.	75688	
ethyl acetate	Brenntag GmbH	10010447	
silica gel	Merck KGaA	1.10832.9025	Geduran Si 60 0.063-0.2 mm
TLC silica gel 60 F254	Merck KGaA	1.16834.0001	
methanol	VWR	20903.55	
ethanol	Brenntag GmbH	10018366	
diethylether	VWR	23807.468	stored over KOH plates
ammonia solution (25%)	VWR	1133.1	
pH electrode	VWR	662-1657	
stirring and heating unit	Heidolph	505-20000-00	
pump	Ilmvac GmbH	322002	
frit	-	custom design	
NMR spectrometer	Bruker Cooperation	-	Ultra Shield 400
mass spectrometer	Thermo Fisher Scientific Inc.	-	
elemental analyser	Hekatech GmbH Analysentechnik	-	EuroVector EA 3000 CHNS
deuterated water D ₂ O	euriso-top	D214	99.90% D
Material/Equipment required for labeling procedures			
⁶⁸ Ge/ ⁶⁸ Ga generator	ITG Isotope Technologies Garching GmbH	A150	
pump and dispenser system	Scintomics GmbH	-	Variosystem
hydrochloric acid 30% (suprapur)	Merck KGaA	1.00318.1000	
water (ultrapur)	Merck KGaA	1.01262.1000	
sodium chloride (suprapur)	Merck KGaA	1.06406.0500	
sodium acetate (suprapur)	Merck KGaA	1.06264.0050	
glacial acetic acid (suprapur)	Merck KGaA	1.00066.0250	
sodium citrate dihydrate	VEB Laborchemie Apolda	10782	>98.5%
PS-H ⁺ Cartridge (S)	Macherey-Nagel	731867	Chromafix

apo-Transferrin	Sigma-Aldrich Co.	T2036	
PBS buffer (tablets)	Sigma-Aldrich Co.	79382	
human serum	Sigma-Aldrich Co.	H4522	from human male AB plasma
flasks, columns, etc.		custom design	
pH electrode	Knick Elektronische Messgeräte GmbH & Co. KG	765-Set	
binary pump (HPLC)	Hewlett-Packard	G1312A (HP 1100)	
UV Vis detector (HPLC)	Hewlett-Packard	G1315A (HP 1100)	
radioactive detector (HPLC)	EGRC Berthold		
HPLC C-18-PFP column	Advanced Chromatography Technologies Ltd.	ACE-1110-1503/A100528	
HPLC glass vials	GTG Glastechnik Graefenroda GmbH	8004-HP-H/i3 μ	
pipette	Eppendorf	-	
plastic vials	Sarstedt AG & Co.	6542.007	
plastic vials	Greiner Bio-One International GmbH	717201	
activimeter	MED Nuklear-Medizintechnik Dresden GmbH	-	Isomed 2010
tweezers		custom design	
incubator	Heraeus Instruments GmbH	51008815	
vortex mixer	Fisons	-	Whirlimixer
centrifuge	Heraeus Instruments GmbH	75003360	
gamma well counter	MED Nuklear-Medizintechnik Dresden GmbH	-	Isomed 2100
water for chromatography	Merck KGaA	1.15333.2500	
acetonitrile for chromatography	Merck KGaA	1.00030.2500	
trifluoroacetic acid	Sigma-Aldrich	91707	
TLC radioactivity scanner	raytest Isotopenmessgeräte GmbH	B00003875	equipped with beta plastic detector