

Materials List for:

Murine Lymphocyte Labeling by ^{64}Cu -Antibody Receptor Targeting for *In Vivo* Cell Trafficking by PET/CT

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Materials

Name	Company	Catalog Number	Comments
HCl, Suprapur	Merck, Darmstadt, Germany	1.00318	^{64}Cu production
Methanol, Suprapur	Merck, Darmstadt, Germany	1.06007	^{64}Cu production
Isopropanol, Suprapur	Merck, Darmstadt, Germany	1.0104	^{64}Cu production
Pt/Ir (90/10) plate	Ögussa	Custom made	^{64}Cu production
PEEK chamber	WKL	Custom made	^{64}Cu production
^{64}Ni	Chemotrade		^{64}Cu production
Polygram SIL G/UV 254 plate	Macherey-Nagel	805021	^{64}Cu production
Ion exchange column	BioRad	AG1-X8	^{64}Cu production
Solid state target system for PETtrace	WKL	costum made	^{64}Cu production
^{64}Cu work-up module	WKL	costum made	^{64}Cu production
Dose calibrator	Capintec	CRC-25R	
PETtrace cyclotron	General Electric Medical Systems		
DOTA-NHS	Macrocyclics	B-280	DOTA-conjugation
Anti-cOVA-TCR antibody (KJ1-26)		Isolated from hybridoma cell culture	DOTA-conjugation
Na_2HPO_4	Sigma-Aldrich	71633	DOTA-conjugation
H^+ Chelex 100	Sigma-Aldrich	C7901	DOTA-conjugation
Amicon Ultra-15 filter unit	Merck Millipore	UFC910008	DOTA-conjugation
Rotipuran ultrapure water	Carl Roth	HN68.3	DOTA-conjugation
Ammonium acetate	Sigma-Aldrich	32301	DOTA-conjugation
PBS	University Tuebingen		DOTA-conjugation
Micro Bio-spin P-6 column	Bio-Rad Laboratories	7326221	DOTA-conjugation
Sodium citrate	Sigma-Aldrich	71497	DOTA-conjugation
Cyclone Plus PhosphorImager	Perkin-Elmer	L2250116	DOTA-conjugation
DMEM	Merck Millipore	102568	ingredient for T cell medium
FCS	Merck Millipore	S0115/1004B	ingredient for T cell medium
Sodium pyruvate	Merck Millipore	L0473	ingredient for T cell medium
MEM-amino acids	Merck Millipore	K0293	ingredient for T cell medium
HEPES	Merck Millipore	L 1613	ingredient for T cell medium
Penicillin/Streptomycin	Merck Millipore	A2212	ingredient for T cell medium
0.05 mM 2-β-mercaptoethanol	Sigma-Aldrich	M3148	ingredient for T cell medium

DO11.10 mice		in-house breeding	TH1 cell culture
DPBS	Gibco	14190144	TH1 cell culture
Cell strainer 40 µm	Corning	352340	TH1 cell culture
ACK Lysing Buffer	Lonza	10-548E	TH1 cell culture
CD4 MicroBeads, mouse	Miltenyi Biotech	130-097-145	TH1 cell culture
QuadroMACS separator	Miltenyi Biotech	130-090-976	TH1 cell culture
LS column	Miltenyi Biotech	130-042-401	TH1 cell culture
anti-CD4 antibody (Gk1.5)		Isolated from hybridoma cell culture	TH1 cell culture
anti-CD8 antibody (5367.2)		Isolated from hybridoma cell culture	TH1 cell culture
Anti-rat antibody (MAR18.5)		Isolated from hybridoma cell culture	TH1 cell culture
Rabbit complement MA	tebu-Bio	CL3221	TH1 cell culture
Anti-IL-4 antibody (11B11)		Isolated from hybridoma cell culture	TH1 cell culture
cOVA 323-339-peptide	EMC-micro-collections	Custom order	TH1 cell culture
CPG1668-oligonucleotides	Eurofins MWG Operon	Custom order	TH1 cell culture
IL-2	Novartis	65483-116-07	TH1 cell culture
96-well plates	Greiner	655180	TH1 cell culture
24-well plates	Greiner	662160	TH1 cell culture
cell culture flask	Greiner	660175	TH1 cell culture
48-well plates	Greiner	677 180	cell labeling
Gammacell 1000	Best Theratronics	via inquiry	
Gulmay RT225	Gulmay	via inquiry	
Trypan blue	Merck Millipore	L6323	<i>in vitro</i> evaluation
Mouse IFN-γ ELISA	BD Biosciences	558258	<i>in vitro</i> evaluation
PE Annexin V Apoptosis Detection Kit	BD Biosciences	559763	<i>in vitro</i> evaluation
Tube 5 mL	Sarstedt	55.476	<i>in vitro</i> evaluation
Round-bottom tubes	BD Biosciences	352008	<i>in vitro</i> evaluation
Wizard γ-counter	Perkin-Elmer	2480-0010	<i>in vitro</i> evaluation
ELISA Reader MultiscanEX	Thermo Fisher Scientific	51118177	<i>in vitro</i> evaluation
Microscope	Leica	via inquiry	<i>in vitro</i> evaluation
BD LSRII	BD Biosciences	via inquiry	<i>in vitro</i> evaluation
BALB/c mice	Charles River	028	<i>in vivo</i> cell trafficking
Aluminum gel	Serva Electrophoresis	12261.01	<i>in vivo</i> cell trafficking
Xylazine	Bayer HealthCare	Ordered via University hospital	<i>in vivo</i> cell trafficking
Ketamine	Ratiopharm	Ordered via University hospital	<i>in vivo</i> cell trafficking
Isoflurane	CP-Pharma	Ordered via University hospital	<i>in vivo</i> cell trafficking
30 G needle	BD Biosciences	304000	<i>in vivo</i> cell trafficking
Syringe	BD Biosciences	11612491	<i>in vivo</i> cell trafficking
Capillaries 10 µL	VWR	612-2439	
Inveon PET scanner	Siemens Healthineers	no longer available	<i>in vivo</i> cell trafficking, alternative companies: Bruker, Mediso
Inveon SPECT/CT scanner	Siemens Healthineers	no longer available	<i>in vivo</i> cell trafficking
Inveon Research Workplace	Siemens Healthineers		image analysis, alternative software: Pmod