

Materials List for:

Quantification of the Immunosuppressant Tacrolimus on Dried Blood Spots Using LC-MS/MS

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Materials

Name	Company	Catalog Number	Comments
Tacrolimus	U.S. Pharmacopeial Convention	1642802	
D ₂ , ¹³ C-Tacrolimus	Toronto Research Chemicals Inc.	F370002	
Red blood cells	University of Colorado Hospital	W20091305500 V	
Plasma	University of Colorado Hospital	W2017130556300Q	
Acetone CHROMASOLV, HPLC, ≥99,9%	Sigma-Aldrich	439126-4 L	
Acetonitrile Optima LC/MS, UHPLC-UV	Thermo Fisher Scientific	A955-4	
Isopropanol 99.9%, HPLC	Fisher Scientific	BP2632-4	
Methanol Optima LC/MS	Thermo Fisher Scientific	A452-4	
Water Optima LC/MS, UHPLC-UV	Thermo Fisher Scientific	W6-4	
Formic acid	Thermo Fisher Scientific	A118P-500	
Phosphate-buffered saline (PBS)	Sigma-Aldrich	D8537	
Zinc sulfate	Thermo Fisher Scientific	Z68-500	
0.5 – 10 µl pipet, VoluMate LIQUISYSTEMS	Mettler Toledo	17008649	
1.5 ml Eppendorf tube	Thermo Fisher Scientific	02-682-550	
10 – 100 µl pipet, VoluMate LIQUISYSTEMS	Mettler Toledo	17008651	
10 µl pipet tips with filter, sterile	Neptune	BT 10XLS3	
100 – 1,000 µl pipet, VoluMate LIQUISYSTEMS	Mettler Toledo	17008653	
100 µl pipet tips with filter, sterile	Neptune	BT 100	
1,000 µl pipet tips with filter, sterile	Multimax	2940	
2 – 20 µl pipet, VoluMate LIQUISYSTEMS	Mettler Toledo	17008650	
2 ml Eppendorf tube	Thermo Fisher Scientific	02-681-258	
20 – 200 µl pipet, VoluMate LIQUISYSTEMS	Mettler Toledo	17008652	
20 µl pipet tips with filter, sterile	GeneMate	P-1237-20	
200 µl pipet tips with filter	Multimax	2938T	
200 µl pipet tips with filter, sterile	Multimax	2936J	
50 ml Falcon tube	BD Falcon	352070	

300 µl inserts for HPLC vials	Phenomenex	ARO-9973-13	
Balance PR2002	Mettler Toledo	1117050723	
Balances AX205 Delta Range	Mettler Toledo	1119343379	
Bullet Blender Homogenizer	Next Advance	BBX24	
Centrifuge Biofuge Fresco	Heraeus	290395	
Disposable Wipes	PDI	Q55172	
Glass vials, 4 ml	Thermo Fisher Scientific	14-955-334	
Glass vials, 20 ml	Thermo Fisher Scientific	B7800-20	
Gloves, nitrile	Titan Brand Gloves	44-100S	
HPLC vials, 9 mm, 2 ml, clear	Phenomenex	ARO- 9921-13	
Lids for HPLC vials	Phenomenex	ARO- 8952-13-B	
Needle, 18 G 1.5	Precision Glide	305196	
Rack for Eppendorf tubes	Thermo Fisher Scientific	03-448-11	
Rack for HPLC Vials	Thermo Fisher Scientific	05-541-29	
Steel beads 0.9 – 2 mm	Next Advance	SSB14B	
Storage boxes for freezers / refrigerators	Thermo Fisher Scientific	03-395-464	
Standard multi-tube vortexer	VWR Scientific Products	658816-115	
Whatman Paper, 903 Protein Saver US 100/PK	GE Whatman	2016-05	
Autosampler	CTC PAL	PAL.HTCABlx1	
Binary pump, Agilent 1260 Infinity	Agilent Technologies	1260 G1312B	
Binary pump, Agilent 1290 Infinity	Agilent Technologies	1290 G4220A	
Micro vacuum degasser, Agilent 1260	Agilent Technologies	1260 G13798	
Column oven, Agilent 1290 with 2 position	Agilent Technologies	1290 G1216C	
Thermostated column compartment with integrated 6 port switching valve	Agilent Technologies	1290 G1316C	
HPLC pre-column cartridge, Zorbax XDB C8 (5 µm particle size), 4.6 · 12.5 mm	Phenomenex	820950-926	
HPLC analytical column, Zorbax Eclipse-XDB-C8 (5 µm particle size), 4.6 · 150 mm	Phenomenex	993967-906	
Tandem Mass Spectrometer			
API5000 MS/MS with Turbolonspray source	AB Sciex	4364257	
Mass spectrometry software	AB Sciex	Analyst 1.5.1	