

Materials List for:

Cellular Lipid Extraction for Targeted Stable Isotope Dilution Liquid Chromatography-Mass Spectrometry Analysis

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Materials

Name	Company	Catalog Number	Comments
5-oxo-6E,8Z,11Z,14Z-eicosatetraenoic-6,8,9,11,12,14,15-d7 acid	Cayman Chemical	334250	[² H ₇]-5-ox-TE Internal Standard
5S-hydroxy-6E,8Z,11Z,14Z-eicosatetraenoic-5,6,8,9,11,12,14,15-d8 acid	Cayman Chemical	334230	[² H ₈]-5(S)-HETE Internal Standard
12S-hydroxy-5Z,8Z,10E,14Z-eicosatetraenoic-5,6,8,9,11,12,14,15-d8 acid	Cayman Chemical	334570	[² H ₈]-12(S)-HETE Internal Standard
15S-hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic-5,6,8,9,11,12,14,15-d8 acid	Cayman Chemical	334720	[² H ₈]-15(S)-HETE Internal Standard
20-hydroxy-5Z,8Z,11Z,14Z-eicosatetraenoic-16,16,17,17,18,18-d6 acid	Cayman Chemical	390030	[² H ₆]-20-HETE Internal Standard
9S-hydroxy-10E,12Z-octadecadienoic-9,10,12,13-d4 acid	Cayman Chemical	338410	[² H ₄]-9(S)-HODE Internal Standard
13S-hydroxy-9Z,11E-octadecadienoic-9,10,12,13-d4 acid	Cayman Chemical	338610	[² H ₄]-13(S)-HODE Internal Standard
9 α ,11 α ,15S-trihydroxy-prosta-5Z,13E-dien-1-oic-17,17,18,18,19,19,20,20-d4 acid	Cayman Chemical	316010	[² H ₄]-PGF _{2α} Internal Standard
9 α ,11 α ,15S-trihydroxy-(8 β)-prosta-5Z,13E-dien-1-oic-3,3,4,4-d4 acid	Cayman Chemical	316350	[² H ₄]-8-iso-PGF _{2α} Internal Standard
9 α ,11 β ,15S-trihydroxy-prosta-5Z,13E-dien-1-oic-3,3,4,4-d4 acid	Cayman Chemical	10008989	[² H ₄]-11 β -PGF ₂ Internal Standard
9 α ,15S-dihydroxy-11-oxo-prosta-5Z,13E-dien-1-oic-17,17,18,18,19,19,20,20-d4 acid	Cayman Chemical	312010	[² H ₄]-PGD ₂ Internal Standard
9-oxo-11 α ,15S-dihydroxy-prosta-5Z,13E-dien-1-oic-17,17,18,18,19,19,20,20-d4 acid	Cayman Chemical	314010	[² H ₄]-PGE ₂ Internal Standard
5S,12R-dihydroxy-6Z,8E,10E,14Z-eicosatetraenoic-6,7,14,15-d4 acid	Cayman Chemical	320110	[² H ₄]-LTB ₄ Internal Standard
9 α ,11,15S-trihydroxy-thromba-5Z,13E-dien-1-oic-3,3,4,4-d4 acid	Cayman Chemical	319030	[² H ₄]-TxB ₂ Internal Standard

5-oxo-6E,8Z,11Z,14Z-eicosatetraenoic acid	Cayman Chemical	34250	5-ox-TE Standard
12-oxo-5Z,8Z,10E,14Z-eicosatetraenoic acid	Cayman Chemical	34580	12-ox-TE Standard
15-oxo-5Z,8Z,11Z,13E-eicosatetraenoic acid	Cayman Chemical	34730	15-ox-TE Standard
5R-hydroxy-6E,8Z,11Z,14Z-eicosatetraenoic acid	Cayman Chemical	34225	5(R)-HETE Standard
5S-hydroxy-6E,8Z,11Z,14Z-eicosatetraenoic acid	Cayman Chemical	34230	5(S)-HETE Standard
8R-hydroxy-5Z,9E,11Z,14Z-eicosatetraenoic acid	Cayman Chemical	34350	8(R)-HETE Standard
8S-hydroxy-5Z,9E,11Z,14Z-eicosatetraenoic acid	Cayman Chemical	34360	8(S)-HETE Standard
11R-hydroxy-5Z,8Z,12E,14Z-eicosatetraenoic acid	Cayman Chemical	34505	11(R)-HETE Standard
11S-hydroxy-5Z,8Z,12E,14Z-eicosatetraenoic acid	Cayman Chemical	34510	11(S)-HETE Standard
12R-hydroxy-5Z,8Z,10E,14Z-eicosatetraenoic acid	Cayman Chemical	34560	12(R)-HETE Standard
12S-hydroxy-5Z,8Z,10E,14Z-eicosatetraenoic acid	Cayman Chemical	34570	12(S)-HETE Standard
15R-hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic acid	Cayman Chemical	34710	15(R)-HETE Standard
15S-hydroxy-5Z,8Z,11Z,13E-eicosatetraenoic acid	Cayman Chemical	34720	15(S)-HETE Standard
20-hydroxy-5Z,8Z,11Z,14Z-eicosatetraenoic acid	Cayman Chemical	90030	20-HETE Standard
9R-hydroxy-10E,12Z-octadecadienoic acid	Cayman Chemical	38405	9(R)-HODE Standard
9S-hydroxy-10E,12Z-octadecadienoic acid	Cayman Chemical	38410	9(S)-HODE Standard
13R-hydroxy-9Z,11E-octadecadienoic acid	Cayman Chemical	38605	13(R)-HODE Standard
13S-hydroxy-9Z,11E-octadecadienoic acid	Cayman Chemical	38610	13(S)-HODE Standard
9 α ,11 α ,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid	Cayman Chemical	16010	PGF _{2α} Standard
9 α ,11 α ,15S-trihydroxy-(8 β)-prosta-5Z,13E-dien-1-oic acid	Cayman Chemical	16350	8-iso-PGF _{2α} Standard
9 α ,11 β ,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid	Cayman Chemical	16520	11 β -PGF ₂ Standard
9 α ,15S-dihydroxy-11-oxo-prosta-5Z,13E-dien-1-oic acid	Cayman Chemical	12010	PGD ₂ Standard
9-oxo-11 α ,15S-dihydroxy-(8 β)-prosta-5Z,13E-dien-1-oic acid	Cayman Chemical	14350	8-iso-PGE ₂ Standard
9-oxo-11 α ,15S-dihydroxy-prosta-5Z,13E-dien-1-oic acid	Cayman Chemical	14010	PGE ₂ Standard
5S,12R-dihydroxy-6Z,8E,10E,14Z-eicosatetraenoic acid	Cayman Chemical	20110	LTB ₄ Standard
9 α ,11,15S-trihydroxythromba-5Z,13E-dien-1-oic acid	Cayman Chemical	19030	TxB ₂ Standard
Phosphate Buffered Saline	GIBCO, by Life Technologies	14190	
Diethyl Ether	Sigma-Aldrich	346136	

Dichloromethane	Acros Organics	61030-1000	anhydrous
<i>N,N</i> -diisopropylethyl amine	Sigma-Aldrich	387649	
Pentafluorobenzyl bromide	Sigma-Aldrich	101052	
Hydrochloric Acid	Sigma-Aldrich	320331	
Potassium Hydroxide	Fluka	00650	
Acetonitrile	Fisher Scientific	A996-4	
Methanol	Fisher Scientific	A454-4	
Chloroform	Fisher Scientific	366927	
Hexane	Fisher Scientific	H303-4	
Isopropanol	Fisher Scientific	A464-4	
Ethanol	Decon Laboratories	2716	
Water	Fisher Scientific	W7-4	
Pasteur Pipets	Fisher Scientific	13-678-200	
10 mL Glass Centrifuge Tubes	Kimble Chase	73785-10	Screw cap
Phenolic Screw Caps	Kimble Chase	73802-13415	
Chiralcel ADH Column	Chiral Technologies	19325	
HPLC vials	Waters	60000751CV	
HPLC inserts	Waters	WAT094171	