

Materials List for:

Simultaneous Quantification of Selected Kynurenines Analyzed by Liquid Chromatography-Mass Spectrometry in Medium Collected from Cancer Cell Cultures

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URL: <https://www.jove.com/video/61031>

DOI: [doi:10.3791/61031](https://doi.org/10.3791/61031)

Materials

Name	Company	Catalog Number	Comments
3-hydroksy-DL-kynurenina	Sigma-Aldrich	H1771	
3-hydroxyanthranilic acid	Sigma-Aldrich	148776	97%
3-nitro-L-tyrosine	Sigma-Aldrich	N7389	
Acetonitrile	Supelco	1.00029	hypergrade for LC-MS LiChrosolv
Activated charcoal	Supelco	05105	powder
Analytical balance	Ohaus		
Analytical column	Agilent Technologies	959764-902	Zorbax Eclipse Plus C18 rapid resolution HT (2.1 x 100 mm, 1.8 µm)
Ammonium formate	Supelco	7022	eluent additive for LC-MS, LiChropur, ≥99.0%
Bovine Serum Albumin	Sigma	1001887398	
Caps for chromatographic vials	Agilent Technologies	5185-5820	blue screw caps, PTFE/red sil sepa
Cell culture dish	Nest	704004	polystyrene, non-pyrogenic, sterile
Cell culture plate	Biologix	07-6012	12-well, non-pyrogenic, non-cytotoxic, sterile
Cell incubator	Thermo Fisher Scientific		HERAcell 150i Cu
Centrifuge	Eppendorf		model 5415R
Centrifuge	Eppendorf		model 5428
Centrifuge tubes	Bionovo	B-2278	Eppendorf type, 1.5 mL
Centrifuge tubes	Bionovo	B-3693	Falcon type, 50 mL, PP
Chromatographic data acquisition and analysis software	Agilent Technologies		LC/MSD ChemStation (B.04.03-S92)
Chromatographic insert vials	Agilent Technologies	9301-1387	100 µL
Chromatographic vials	Agilent Technologies	5182-0714	2 mL, clear glass
Dimethyl sulfoxide	Supelco	1.02950	Uvasol
Dubelcco's Modified Eagle's Medium (DMEM)	PAN Biotech	P04-41450	
Dual meter pH/conductivity	Mettler Toledo		SevenMulti
Evaporator	Genevac		model EZ-2.3 Elite
Fetal bovine serum	Sigma-Aldrich	F9665	
Formic acid	Supelco	5.33002	for LC-MS LiChropur
Glass bottle for reagents storage	Bionovo	S-2070	50 mL, clear glass

Guard column	Agilent Technologies	959757-902	Zorbax Eclipse Plus-C18 Narrow Bore Guard Column (2.1 x 12.5 mm, 5 µm)
Hydrochloric acid	Merck	1.00317.1000	
L-kynurenine	Sigma-Aldrich	K8625	≥98% (HPLC)
Magnetic stirrer	Wigo		ES 21 H
Microbalance	Mettler Toledo		model XP6
Milli-Q system	Millipore	ZRQSVPO30	Direct-Q 3 UV with Pump
Quadrupole mass spectrometer	Agilent Technologies	G1948B	model 6120
Penicillin-Streptomycin	Sigma-Aldrich	048M4874V	
Plate reader	Bio Tek		Synergy 2 operated by Gen5
Potassium chloride	Merck	1.04936.1000	
Potassium dihydrogen phosphate	Merck	1.05108.0500	
Protein Assay Dye Reagent Concentrate	BioRad	500-0006	
See-saw rocker	Stuart	SSL4	
Serological pipette	Nest	326001	5 mL, polystyrene, non-pyrogenic, sterile
Sodium chloride	Sigma-Aldrich	7647-14-5	
Sodium phosphate dibasic	Merck	1.06346.1000	
Solvent inlet filter	Agilent Technologies	5041-2168	glass filter, 20 µm pore size
Solvent reservoir (for LC-MS)	Agilent Technologies	9301-6524	1 L, clear glass
Solvent reservoir (for LC-MS)	Agilent Technologies	9301-6526	1 L, amber glass
Spreadsheet program	Microsoft Office		Microsoft Office Excel
Stir bar	Bionovo	6-2003	teflon coated
Syringe filters for culture medium filtration	Bionovo	7-8803	regenerated cellulose, Ø 30 mm, 0,45 µm
Syringe filters for mobile phase components filtration	Bionovo	6-0018	nylon, Ø 30 mm, 0,22 µm
Tissue culture plates	VWR	10062-900	96-wells, sterile
Trypsin-EDTA Solution	Sigma-Aldrich	T4049-100 mL	
Ultra-High Performance Liquid Chromatography system	Agilent Technologies	G1367D, G1379B, G1312B, G1316C	1200 Infinity system consisted of autosampler (G1367D), degasser (G1379B), binary pump (G1312B), column thermostat (G1316C)
Ultrasound bath	Polsonic	104533	model 6D
Vortex	Biosan		model V-1 plus
Xanthurenic acid	Sigma-Aldrich	D120804	96%