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Mass Spectrometry Data Set for Renal Cell Carcinoma and Polycystic Kidney Disease Cell Models

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Mass Spectrometry Data Set for Renal Cell Carcinoma and Polycystic Kidney Disease Cell Models

Purpose: This data set will be evaluated by collaborators at UC Davis for possible inclusion in a research paper for publication in a scientific journal and to assist in the design of additional experiments. Researchers from UC Davis and LLNL will contribute to the manuscript.

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Note: Cysteine, Serine, GSH, and GSSH were also measured in MEK, PH2, and PN24 samples but were not detected. Glutamine was not detected in cell extracts.

uM Arginine					
MEK Null Cells					
24 H		72 H			
24 H Con	ADI	48 H Con	48 H ADI	72 H Con	ADI
33.7868	14.2648	29.7525	14.6654	5.9573	1.8807
		32.1327	15.8771	6.5506	2.7414
		31.8712	15.113	6.006	2.0427
	pooled	10.3866	3.0157		
MEK WT Cells					
72 H					
72 H Con	ADI				
7.6667	22.4047				
7.0969	8.8179				
7.0586	9.8911				
PH2 Cells		PN24 Cells			
72 H					
72 H Con	ADI	72 H Con	72 H ADI		
12.2779	10.2835	5.5879	4.0674		
2.3177	9.5884	8.4388	4.5303		
3.0482	12.4731	7.7708	5.0413		
MEK Null Media					
24 H		72 H			
24 H Con	ADI	48 H Con	48 H ADI	72 H Con	ADI
740.9696	5.8932	564.8046	4.7328	530.6844	4.6398
625.2348	5.0424	536.8566	4.737	513.9048	4.6686
610.4808	4.7052	557.0304	4.665	524.6112	4.8234
MEK WT Media					
72 H					
72 H Con	ADI				
496.728	7.9674				
469.3944	5.2374				
487.617	4.8534				
PH2 Media		PN24 Media			
72 H					
72 H Con	ADI	72 H Con	72 H ADI		
442.209	4.4544	418.1874	4.9224		
464.4108	4.3224	414.555	4.3974		
440.9976	4.1292	348.4398	291.978		

uM Tryptophan					
MEK Null Cells					
24 H	24 H	48 H	48 H	72 H	72 H
Con	ADI	Con	ADI	Con	ADI
2.9657	6.7518	2.5439	3.8883	3.9797	3.0634
		2.1543	3.0076	3.2569	2.6704
		2.0446	3.3442	2.6504	3.489
	pooled	4.0877	4.0604		
MEK WT Cells					
72 H	72 H				
Con	ADI				
1.3861	3.9446				
1.3412	2.431				
1.3472	2.8489				
PH2		PN24 Cells			
Cells		72 H	72 H		
72 H	72 H	72 H	72 H		
Con	ADI	Con	ADI		
1.6293	1.0027	1.1772	1.4884		
0.121	1.0513	1.5099	2.4793		
0.4192	1.0938	1.1731	2.1881		
MEK Null Media					
24 H	24 H	48 H	48 H	72 H	72 H
Con	ADI	Con	ADI	Con	ADI
45.9008	50.7696	49.2648	46.662	42.462	48.0588
51.8952	51.1308	46.1148	47.3148	40.5516	46.8174
52.302	49.3104	46.7628	47.3832	42.3858	46.1316
MEK WT Media					
72 H	72 H				
Con	ADI				
28.1452	32.1354				
29.8956	31.6458				
30.129	32.1396				
PH2 Media		PN24 Media			
72 H	72 H	72 H	72 H		
Con	ADI	Con	ADI		
31.488	36.3804	32.8638	39.8004		
33.1152	35.487	32.4954	39.5442		
31.5066	35.877	29.9226	21.5296		

uM Glutamate					
MEK Null Cells					
24 H Con	24 H ADI	48 H Con	48 H ADI	72 H Con	72 H ADI
32.9278	133.4114	162.5773	131.9534	127.277	23.7607
		146.387	143.6401	134.4573	34.9597
		197.9091	152.9719	100.8222	29.0763
	pooled	87.5935	157.8649		
MEK WT Cells					
72 H Con	72 H ADI				
115.281	232.1551				
103.6866	111.3426				
102.2508	126.1647				
PH2 Cells			PN24 Cells		
72 H Con	72 H ADI		72 H Con	72 H ADI	
106.6316	114.3026		96.9641	89.3326	
18.5606	108.3708		111.0987	89.5321	
28.3916	114.516		109.5154	92.7896	
MEK Null Media					
24 H Con	24 H ADI	48 H Con	48 H ADI	72 H Con	72 H ADI
100.8052	108.7866	123.7566	152.4114	130.233	162.9708
100.0122	104.2776	125.5344	165.6822	133.1586	167.1288
93.5412	97.551	132.0762	173.9082	134.1732	159.2022
MEK WT Media					
72 H Con	72 H ADI				
129.4448	159.462				
130.8492	165.0204				
151.8948	163.146				
PH2 Media			PN24 Media		
72 H Con	72 H ADI		72 H Con	72 H ADI	
156.7998	128.6508		118.0176	173.8446	
163.6638	166.0344		120.6354	174.978	
152.6808	158.5668		90.3402	79.0952	

uM Glutamine			Above Standard Curve			
MEK Null Media						
24 H Con	24 H ADI	48 H Con	48 H ADI	72 H Con	72 H ADI	
1259.238	1002.016	903.6108	953.1318	665.499	1218.897	
729.813	994.3776	779.1966	1033.194	668.3934	1165.438	
724.6806	955.257	832.392	1005.233	687.363	1111.472	
MEK WT Media						
72 H Con	72 H ADI					
697.61	598.5258					
543.6192	529.3278					
585.0996	562.9686					
PH2 Media			PN24 Media			
72 H Con	72 H ADI		72 H Con	72 H ADI		
496.4688	467.0388		195.597	442.911		
515.16	410.7498		176.6094	398.679		
590.7798	247.5342		175.0356	139.7468		

Media Glutamax Intensity (Not Linear)					
MEK Null Media					
24 H Con	24 H ADI	48 H Con	48 H ADI	72 H Con	72 H ADI
1021858	664164.6	195531.4	7531.968	466002.1	52101.22
958279.8	701633.9	134232.5	9466.728	457579.3	47083.4
1081200	694235.5	141807.9	7080.876	472630.4	48378.53
MEK WT Media					
72 H Con	72 H ADI				
421946.8	34952				
388584.4	25969.15				
365449	34650.47				
PH2 Media			PN24 Media		
72 H Con	72 H ADI		72 H Con	72 H ADI	
9815.922	0		1041857	610365.2	
5885.046	0		959301.3	569891.1	
10014.47	0		781314.5	652785.5	

Sample	uM Glutamine	uM GSH	uM Glutamate
75% ACN Blank_with_Samples	0	0	0
NHK 1 Cells	1.2608	13.9206	38.2592
NHK 2 Cells	1.2398	11.4287	34.0761
NHK 3 Cells	1.768	11.6589	42.5692
NHK 4 Cells	5.1985	4.4802	17.9551
NHK 5 Cells	4.8056	4.5358	16.1601
NHK 6 Cells	4.4022	4.505	14.2634
786-0 1 Cells	0.8752	17.0022	33.6266
786-0 2 Cells	0.9909	20.3384	43.8083
786-0 3 Cells	1.0058	20.7276	47.7504
786-0 4 Cells	1.8608	9.9775	14.1948
786-0 5 Cells	1.548	8.8294	13.733
786-0 6 Cells	1.7764	8.991	14.2574
SN 1 Cells	3.5804	21.4995	30.7467
SN 2 Cells	3.1655	21.5329	31.9957
SN 3 Cells	3.4162	21.7237	31.3327
SN 4 Cells	5.6968	15.1341	8.7456
SN 5 Cells	5.2216	13.2912	7.1278
SN 6 Cells	6.0288	12.9295	7.6613
NHK Media 50% ACN 1	625.5396	0	20.972
NHK Media 50% ACN 2	> 800 uM	0	5.5904
NHK Media 50% ACN 3	512.6072	0	17.3052
NHK Media 50% ACN 4	488.4944	0	29.062
NHK Media 50% ACN 5	711.7124	0	4.7108
NHK Media 50% ACN 6	> 800 uM	0	4.5092
786-0 Media 50% ACN 1	342.502	0.4436	107.7832
786-0 Media 50% ACN 2	311.3608	0.4448	91.8064
786-0 Media 50% ACN 3	317.3192	0	105.548
786-0 Media 50% ACN 4	437.1452	0	54.4876
786-0 Media 50% ACN 5	481.8888	0	84.3784
786-0 Media 50% ACN 6	494.2024	0	88.3824
SN Media 50% ACN 1	267.5528	0	62.2444
SN Media 50% ACN 2	263.984	0	64.4584
SN Media 50% ACN 3	228.3984	0	56.7652
SN Media 50% ACN 4	244.4628	0	31.462
SN Media 50% ACN 5	365.9656	0	46.5552
SN Media 50% ACN 6	398.8204	0	53.2824
Media No Gln MeOH 1-9	32.446	2.362	53.318
Media With Gln MeOH 1-9	> 800 uM	2.316	61.404
FBS MeOH 1-9	72.902	2.214	155.55

Note: Dilution Factors are included in calculation (1:1 extraction, 1:1 or 1:9 dilution for analysis)