

Mean ± SD				
Metabolite	Control Sample	Patient Day 0	Patient Day 3	Patient Day 7
Butanedioic acid	49497135.52 ±	110147259.45 ±	77210616.67 ±	63907690.77 ±
	40188291.64	220991205.99	73937642.46	51682582.13
L-5-Oxoproline	82227188.03 ±	108926664.32 ±	132306351.10 ±	115009867.78 ±
	66421805.51	69632879.02	145678022.34	112376124.07
4-Hydroxybenzoic acid	51741671.06 ±	56997652.42 ±	59391647.16 ±	61878078.89 ±
	37152135.96	49067208.67	45125510.50	40898918.96
4-Hydroxybenzeneacetic acid	226385533.42 ±	382764862.49 ±	356376134.68 ±	349914889.57 ±
	145665558.57	322546636.20	289247359.71	350307868.76
4-Hydroxyphenyllactic acid	17102467.87 ±	56387810.03 ±	59455043.10 ±	32807685.93 ±
	26521482.53	84974395.36	110842790.06	39149560.94
4-Hydroxy-3-methoxyphenylglycol	5099938.39 ±	0.00 ± 0.00	12165665.45 ±	10795277.10 ±
	15866857.28		62015745.57	51465132.55
Azelaic acid	100585931.26 ±	40223201.32 ±	51163278.81 ±	229801595.90 ±
	90363345.10	50246731.24	78990742.23	427240680.20
Hippuric acid	298534860.00 ±	329125110.29 ±	473878697.06 ±	337567389.54 ±
	288041768.98	284660504.18	452111500.48	321373327.97
3-Indoleacetic acid	124649902.81 ±	104772213.54 ±	184545484.16 ±	113504614.53 ±
	114737193.84	110859771.35	285685348.01	89663862.58
Palmitic Acid	801057832.29 ±	758137310.12 ±	726445138.45 ±	777143457.08 ±
	269902963.21	297507651.90	389079034.53	374467419.44
Pimelic acid	20104165.00 ±	8497896.71 ±	40911393.94 ±	20816240.82 ±
	41447595.83	22505193.46	167289678.36	53658455.98
Palmitelaidic acid	1960985.81 ±	7375030.94 ±	557004.52 ±	391435.16 ±
	10918306.89	30836785.89	3101269.89	2179418.74
9H-Purine	157624985.90 ±	195235981.41 ±	213593818.00 ±	225386804.32 ±
	163580088.87	279409268.63	240640017.41	261936291.02
9,12-Octadecadienoic acid	1003960.61 ±	5292454.97 ±	30285068.10 ±	2706635.23 ±
	5589816.12	14437202.34	124414824.59	10621279.43
5-Hydroxyindoleacetic acid	24306298.97 ±	51666446.28 ±	42063889.39 ±	85404462.91 ±
	48165424.10	69581755.55	63700677.24	206189150.72
9-Octadecenoic acid	3928521.10 ±	4255560.14 ±	3579655.29 ±	2703738.08 ±
	14267204.25	14016267.80	13882971.25	10665897.17
Stearic acid	636434095.11 ±	629368253.21 ±	551610162.00 ±	653315787.10 ±
	231715374.33	204158203.73	251211731.91	306912394.19
Pseudo uridine	22605522.42 ±	36983865.72 ±	82484724.35 ±	40469622.99 ±
	32338278.47	53624944.60	221430250.57	47709148.72
Arachidic acid	38267985.13 ±	29812740.30 ±	26875617.55 ±	39428643.24 ±
	37259362.72	30251885.89	33780748.60	113376861.07
Arachidonic acid	1596512.90 ±	24187508.81 ±	3222532.68 ±	0.00 ± 0.00
	8889007.65	134670349.56	17942302.60	
Anthranilic acid	10610522.39 ±	25202620.91 ±	133802712.84 ±	25622146.54 ±
	19848331.17	33510059.53	333033243.34	40185011.15
2-Palmitoylglycerol	92376319.81 ±	68194379.22 ±	124146269.00 ±	127929444.60 ±
	84544159.51	83593953.82	287556151.96	212742562.47
1-Monopalmitin	752452818.58 ±	760737503.52 ±	724759462.29 ±	639514584.69 ±
	610697085.12	611633048.89	615466715.78	655288301.52
2-Monostearin	24038781.48 ±	45112859.78 ±	48980719.87 ±	36586233.66 ±
	41930656.06	58568531.48	55705565.75	47683455.26
Glycerol monostearate	476467107.97 ±	474455439.91 ±	535400203.10 ±	560938195.95 ±
	469146467.76	488497710.64	464502781.54	515100944.38
3-Hydroxyphenylacetic acid	26078504.87 ±	62477765.52 ±	23926827.84 ±	149427267.04 ±
	29610857.32	189454790.11	34491938.65	398176432.18
3-Hydroxyisovaleric acid	0.00 ± 0.00	46286506.63 ±	110150315.48 ±	67847315.69 ±
		133768889.52	201288835.16	206395191.42
3-Hydroxyanthranilic Acid	5801611.77 ±	9635704.58 ±	12710262.39 ±	11855216.55 ±
	13528064.41	18516626.76	30947203.91	24233278.38
3-Hydroxyhippuric acid	31478259.00 ±	19175562.58 ±	0.00 ± 0.00	5223402.16 ±
	68047652.18	65591730.01		29082672.41

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p-Tolyl-?-D-glucuronide	5088179.52 $\pm$ 16767240.58	58936026.48 $\pm$ 250508262.24	35548132.19 $\pm$ 66159119.76	89610086.61 $\pm$ 241860944.04
L- (-) -Arabitol	2223976.52 $\pm$ 10270957.50	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	1514478.84 $\pm$ 8432261.31
Phloretic acid	443457.13 $\pm$ 2469064.80	1500055.65 $\pm$ 8351956.36	698213.97 $\pm$ 3887490.85	0.00 $\pm$ 0.00
Vanillylmandelic acid	11708753.26 $\pm$ 21260007.07	16113132.90 $\pm$ 32433486.00	19050132.65 $\pm$ 39304766.67	12793026.15 $\pm$ 23406226.42
4-Coumaric acid	1230281.19 $\pm$ 4864239.71	1331301.81 $\pm$ 7412374.75	10723849.94 $\pm$ 51584667.74	741751.52 $\pm$ 4129897.66
Malic acid	4537988.32 $\pm$ 18578267.53	1171415.74 $\pm$ 6522166.82	9181154.42 $\pm$ 38807525.92	940460.55 $\pm$ 5236262.73
Myristic acid	94194640.90 $\pm$ 266401381.37	30184847.90 $\pm$ 60687448.86	48759774.84 $\pm$ 154105587.71	58648000.58 $\pm$ 165799070.40
1-Monomyristin	15731778.65 $\pm$ 26486672.64	16082107.81 $\pm$ 31143110.63	19917646.71 $\pm$ 38973997.16	16360187.37 $\pm$ 33481578.59
Heptadecanoic acid	15782398.55 $\pm$ 34260543.90	8738290.92 $\pm$ 31105059.78	4749027.77 $\pm$ 12611565.61	9955353.77 $\pm$ 25069425.02
Hexanedioic acid	13022918.77 $\pm$ 31757871.64	49294495.26 $\pm$ 67265816.78	59754403.81 $\pm$ 96064441.73	25262090.35 $\pm$ 58356222.07
Furoylglycine	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	5999617.62 $\pm$ 26174700.61
Suberic acid	44582203.81 $\pm$ 66071639.24	53000375.32 $\pm$ 70723445.09	64600134.68 $\pm$ 93054445.14	59750852.85 $\pm$ 94713931.01
Indol-5-ol	16143357.65 $\pm$ 43946849.86	11193022.00 $\pm$ 35084689.05	28797826.23 $\pm$ 73846957.20	22951244.88 $\pm$ 74559525.56
3-Methyladipic acid	15018512.90 $\pm$ 33730514.36	43502774.13 $\pm$ 52698130.00	51305809.26 $\pm$ 60430684.39	36602934.04 $\pm$ 65000552.95
5-Hydroxymethyl-2-furoic acid	0.00 $\pm$ 0.00	1799687.35 $\pm$ 10020235.12	3643917.19 $\pm$ 20288472.29	3749866.59 $\pm$ 20878373.58
3,5-Dihydroxybenzoic acid	16670789.58 $\pm$ 24914471.71	28459836.97 $\pm$ 49762961.03	32296195.48 $\pm$ 44470404.61	38773403.99 $\pm$ 45266408.32
3-Phenyllactic acid	0.00 $\pm$ 0.00	9521874.97 $\pm$ 32114060.77	10370731.84 $\pm$ 45591654.62	2151401.73 $\pm$ 11978497.90
D-Fructose	11214803.94 $\pm$ 44108787.88	27925527.58 $\pm$ 72719413.99	18478830.87 $\pm$ 52546062.51	32469943.57 $\pm$ 171791570.63
Myo-Inositol	1908752.89 $\pm$ 10627483.24	3113144.97 $\pm$ 12242199.85	25038317.55 $\pm$ 109130828.53	9555825.35 $\pm$ 32530341.22
meso-Erythritol	47623900.55 $\pm$ 46833097.40	73400419.61 $\pm$ 63349238.30	80129161.19 $\pm$ 78430677.02	55932903.39 $\pm$ 73775174.57
Adenine	4905951.32 $\pm$ 14249014.07	13956092.55 $\pm$ 21783421.52	17234760.97 $\pm$ 34449315.58	12945960.09 $\pm$ 22141870.16
Adenosine	3489699.13 $\pm$ 13603627.08	1460288.32 $\pm$ 8130541.28	2847806.90 $\pm$ 11336478.18	2548023.66 $\pm$ 9166220.71
2-Hydroxybenzeneacetic acid	18475163.42 $\pm$ 20651383.57	19144069.97 $\pm$ 30390122.76	9738886.45 $\pm$ 18564000.65	9755061.29 $\pm$ 14744255.67
2-Hydroxyhippuric acid	22844690.90 $\pm$ 31543233.40	15838021.94 $\pm$ 48253274.06	9271950.94 $\pm$ 22532699.25	8385740.55 $\pm$ 20044396.98
7-Methylguanine	3553134.03 $\pm$ 11495856.88	3369893.68 $\pm$ 11467818.25	4333258.90 $\pm$ 14191710.48	6028809.65 $\pm$ 14910603.50
1-Methyladenosine, tris (trimethylsilyl) ether	5730003.10 $\pm$ 16143840.19	7884333.29 $\pm$ 22373591.29	13261333.55 $\pm$ 32113786.09	7358395.10 $\pm$ 21292766.18
Sucrose	27217743.53 $\pm$ 49172942.37	5439305.97 $\pm$ 14556910.54	7644187.00 $\pm$ 23965293.81	17872859.45 $\pm$ 50294601.07
Indole-3-lactic acid	0.00 $\pm$ 0.00	6284164.13 $\pm$ 22552233.71	7969459.45 $\pm$ 22738988.93	10452926.10 $\pm$ 42034208.76
Citric acid	9550084.74 $\pm$ 22309263.49	14254902.77 $\pm$ 32919916.33	3571761.06 $\pm$ 13826621.64	5625381.74 $\pm$ 22555014.29
Phenylacetylglutamine	0.00 $\pm$ 0.00	3568532.13 $\pm$ 19868746.02	16538991.48 $\pm$ 64717406.33	4669299.97 $\pm$ 25997561.96

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Uracil	5670347.45 ± 16623284.47	6241233.26 ± 15198368.59	5762340.00 ± 15668211.58	1500336.48 ± 8353520.01
Cholesterol	513712.23 ± 2860228.62	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Sorbitol	107442328.00 ± 271946051.43	445815136.35 ± 720870136.52	397318364.68 ± 612531771.15	194328255.30 ± 394416834.41
Glyceric acid	2463895.68 ± 9537324.01	15602808.58 ± 41417297.64	8451151.06 ± 28819666.31	10836314.23 ± 60334044.17
3-Methylglutaric acid	0.00 ± 0.00	1165621.81 ± 6489907.55	0.00 ± 0.00	1840707.10 ± 10248623.38
trans-4-Hydroxycyclohexanecarboxylic acid	0.00 ± 0.00	2122978.84 ± 11820245.92	1547686.58 ± 8617154.19	4499045.91 ± 17573854.01
Tyrosine	0.00 ± 0.00	1215600.00 ± 6768174.36	4447161.16 ± 19921074.51	1198701.90 ± 6674089.74
9H-Purin-6-ol	2374391.61 ± 13220053.01	8308460.00 ± 27102205.00	9415412.06 ± 41225083.89	3685911.88 ± 12188126.05
Oleic Acid	2695557.00 ± 15008226.20	0.00 ± 0.00	780671.39 ± 4346594.33	579251.94 ± 3225138.28
Glycerol	33426985.26 ± 121708486.66	35412362.74 ± 88534306.80	76487973.65 ± 111096806.35	88841192.77 ± 145171130.17
13-Octadecenoic acid	7518607.00 ± 18980557.71	6529834.58 ± 14698524.14	1481838.61 ± 5884773.41	2491737.30 ± 9995959.41
Glycine	1485754.58 ± 8272331.41	5071950.45 ± 28239424.97	0.00 ± 0.00	0.00 ± 0.00
2-Monocaprin	0.00 ± 0.00	9459836.06 ± 52670138.12	4873980.42 ± 27137174.48	4873980.42 ± 27137174.48
Pentanedioic acid	1565526.26 ± 8716481.31	6560810.10 ± 15748300.21	21739345.55 ± 111578062.05	1577632.97 ± 8783888.62
Butanoic acid	3150374.77 ± 12206249.46	53228775.77 ± 131509694.86	16198984.13 ± 37668157.66	57577965.35 ± 172465653.29
Benzeneacetamide	2228103.06 ± 12405552.84	0.00 ± 0.00	4789195.77 ± 26665113.56	3337772.74 ± 18583932.12
Benzamide	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	15305544.42 ± 85217664.77
Methylsuccinic acid	0.00 ± 0.00	0.00 ± 0.00	6020952.61 ± 23479831.15	2353385.55 ± 13103096.19
3-Hydroxybutyric acid	0.00 ± 0.00	0.00 ± 0.00	3726182.06 ± 20746503.71	0.00 ± 0.00
Dodecanoic acid	768587.71 ± 4279315.26	0.00 ± 0.00	668311.06 ± 3720998.53	2774650.06 ± 7465675.55
Hexadecanoic acid	9204485.77 ± 35046506.94	0.00 ± 0.00	5107586.19 ± 28437836.39	7568877.84 ± 29856581.44
Benzeneacetic acid	2324224.26 ± 9000003.14	0.00 ± 0.00	2231699.00 ± 12425574.16	3738054.52 ± 14470570.59
4-Hydroxymandelic acid	816907.65 ± 4548349.27	808206.19 ± 4499901.64	0.00 ± 0.00	0.00 ± 0.00
2-Pentenedioic acid, 3-methyl-, bis (trimethylsilyl) ester	1765655.58 ± 6877451.52	2324440.23 ± 12941935.45	4159124.77 ± 16233754.42	3494540.52 ± 14281300.45
Pentadecanoic acid	4217596.65 ± 13097959.73	1311964.55 ± 7304709.46	7927713.81 ± 26808528.40	3295438.35 ± 10297018.70
Squalene	2849535.10 ± 8849375.39	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
3,4,5-Trihydroxypentanoic acid	0.00 ± 0.00	5095719.03 ± 19997665.87	0.00 ± 0.00	0.00 ± 0.00
6-Aminocaproic acid	0.00 ± 0.00	916938.77 ± 5105299.03	0.00 ± 0.00	1657571.42 ± 9228967.08
L-Ornithine	0.00 ± 0.00	0.00 ± 0.00	2110914.97 ± 11753077.13	0.00 ± 0.00
Tyramine	0.00 ± 0.00	0.00 ± 0.00	10205035.58 ± 56819233.43	0.00 ± 0.00
L-Lysine	0.00 ± 0.00	0.00 ± 0.00	3577640.90 ± 19919461.52	0.00 ± 0.00

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3-Hydroxydodecanedioic acid	0.00 $\pm$ 0.00	1392621.32 $\pm$ 7753787.37	2795232.55 $\pm$ 15563196.17	0.00 $\pm$ 0.00
Acetoacetic acid	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	2943912.45 $\pm$ 16391010.84
Propanedioic acid	0.00 $\pm$ 0.00	11488671.35 $\pm$ 63966214.95	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
2-Methylalanine	0.00 $\pm$ 0.00	1689848.71 $\pm$ 9408679.42	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
2-Phenyllactic acid	0.00 $\pm$ 0.00	1316908.58 $\pm$ 7332236.66	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
2-Aminobutanoic acid	0.00 $\pm$ 0.00	10467600.03 $\pm$ 58281130.42	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
L-Threitol	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	799025.58 $\pm$ 4448786.15	6728582.35 $\pm$ 29305224.59
3,4-Dihydroxyphenylacetic Acid	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	2654700.55 $\pm$ 14780747.11
3-Hydroxybenzoic acid	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	1218365.65 $\pm$ 6783572.82