

		Liver_1	Liver_2	Liver_3	Liver_4	Liver_6	Liver_8	Liver_9	Liver_10	Liver_11	Liver_12	Liver_13	Liver_14	Liver_16	Liver_17
Compound ID	Metabolite	Control	Control	Control	Control	Control	Control	Control	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate
CPD01	Lactate	908000	441000	770000	823000	678000	1330000	689000	781000	647000	781000	913000	888000	691000	538000
CPD02	12-hydroxydodecanoic acid	41983	50301	72721	63565	33071	42449	60731	135000	52222	69387	33290	126000	39870	48585
CPD03	2-acetamido-2-deoxy-beta-d-glucosylamine	22805	51445	86597	39420	39284	71289	42821	202000	80399	83582	50103	186000	79717	114000
CPD04	2-amino-2-methyl-propanoate	228000	314000	104000	344000	161000	215000	301000	568000	138000	555000	421000	215000	123000	379000
CPD05	2-aminoethyl dihydrogen phosphate	3896.4	9397.5	6975.9	8247.6	4860.9	6868.3	9169.2	11498	10014	6030.6	6547.7	12667	4293.2	6896.2
CPD06	2-hydroxybutyric acid	63916	27263	28848	47621	30627	28626	27524	32099	29702	46227	66708	76966	58290	30212
CPD07	DMP	52568	45335	39821	59318	33160	129000	46750	79763	115000	151000	94541	132000	126000	55126
CPD08	4-aminobutanoic acid	228000	314000	104000	344000	161000	215000	301000	568000	138000	555000	421000	215000	123000	379000
CPD09	4-hydroxyproline	297000	602000	304000	300000	275000	775000	328000	781000	477000	969000	588000	620000	327000	413000
CPD10	5-aminolevulinic acid	297000	602000	304000	300000	275000	775000	328000	781000	477000	969000	588000	620000	327000	413000
CPD11	5-aminopentanoate	33400000	33100000	16200000	19500000	14000000	28700000	27700000	49900000	41600000	53300000	44600000	32100000	20800000	32600000
CPD12	5-oxoproline	57461	13663	63268	32872	59229	9130.3	18152	1534.1	19505	45817	39277	36470	26465	17919
CPD13	5'-methylthioadenosine	811000	997000	599000	106000	26369	269000	99221	291000	2220000	1550000	481000	793000	598000	60902
CPD14	A-D-galactose-1-phosphate	628000	388000	916000	706000	569000	216000	418000	633000	267000	393000	528000	495000	310000	650000
CPD15	Adenine	73196	32138	35312	21875	15966	17452	12749	14354	20832	33305	52945	117000	78532	15111
CPD16	Adenosine	640000	415000	138000	267000	154000	195000	182000	676000	524000	545000	479000	424000	440000	373000
CPD17	ADP	339000	396000	447000	100000	24966	84734	127000	533000	432000	527000	114000	118000	124000	117000
CPD18	ADP-ribose	72152	41988	36681	53025	17118	12281	28755	25536	36036	46991	41738	14616	20863	24939
CPD19	AMP	2960000	4860000	2720000	2570000	730000	3290000	3690000	5930000	5860000	6860000	2070000	7370000	3140000	3730000
CPD20	ADP-glucose	113000	355000	432000	51097	3024	83092	116000	519000	302000	527000	41460	116000	64032	40758
CPD21	Alanine	419000	396000	384000	432000	274000	630000	475000	944000	745000	1370000	605000	1570000	956000	498000
CPD22	Allothreonine	508000	782000	450000	260000	179000	409000	676000	975000	1080000	1500000	537000	1940000	1170000	786000
CPD23	Glucose-1-phosphate	64216	331000	204000	160000	97807	286000	239000	380000	210000	206000	205000	501000	123000	243000
CPD24	Aminoadipate	215000	79646	104000	103000	55502	84467	45459	313000	255000	307000	268000	276000	139000	104000
CPD25	Arginine	1340000	685000	738000	1190000	984000	832000	1890000	2680000	2370000	3000000	1580000	6460000	5030000	1650000
CPD26	Ascorbate	1642	11855	11845	2765.8	23877	97083	4000.6	23342	6637.7	7313.1	59779	8465.7	3977.1	20873
CPD27	Asparagine	135000	83119	89662	112000	66552	58651	67732	378000	149000	130000	127000	165000	108000	81717
CPD28	Aspartate	355000	265000	217000	254000	161000	179000	195000	939000	411000	644000	263000	659000	488000	287000
CPD29	Azelaic acid	64786	72963	79920	50797	95580	18290	42679	24717	24562	36018	55862	41087	27759	45947
CPD30	Beta-alanine	419000	396000	384000	432000	274000	630000	475000	944000	745000	1370000	605000	1570000	956000	498000
CPD31	NADP	19935	55225	61978	17262	10998	6206.6	5273.1	72713	30744	54635	5028.6	7511	5790.7	6002.9
CPD32	Betaine	33400000	33100000	16200000	19500000	14000000	28700000	27700000	49900000	41600000	53300000	44600000	32100000	20800000	32600000
CPD33	Caprylic acid	15451	24650	48439	1979.7	11007	14891	14199	291.9	13584	29019	2135.2	19175	2821.1	14914
CPD34	Carnitine	706000	1200000	288000	762000	466000	738000	1820000	1420000	944000	1340000	1040000	1180000	1530000	500000
CPD35	4-hydroxyproline	297000	602000	304000	300000	275000	775000	328000	781000	477000	969000	588000	620000	327000	413000
CPD36	Citrate	82534	404000	103000	26236	26577	146000	52196	109000	106000	88122	43663	45495	146000	29266
CPD37	Citrulline	204000	471000	325000	344000	189000	371000	566000	394000	576000	896000	386000	707000	352000	617000
CPD38	CMP	16086	107000	67041	44645	17914	47206	46861	55771	97191	96571	43636	70707	40169	53182
CPD39	Creatine	14500000	12200000	8840000	14600000	9260000	15900000	18800000	23400000	17100000	17500000	25400000	22300000	14900000	22100000
CPD40	Creatine phosphate dibasic tetrahydrate	116000	279000	264000	141000	46002	82844	131000	349000	276000	202000	223000	148000	113000	220000
CPD41	Crystathionine	887000	3580000	1720000	176000	134000	257000	184000	1810000	1060000	3150000	733000	4350000	2250000	229000
CPD42	Cytidine	72906	21050	24645	104000	155000	194000	153000	53918	38035	92340	52224	44962	62060	83356
CPD43	Cytidine 5'-diphosphocholine	134000	314000	194000	348000	123000	437000	514000	392000	401000	600000	380000	616000	319000	444000
CPD44	3-phosphoglyceric acid	4630.1	31138	37692	9511.6	6653.7	9751.8	7699.9	32151	41311	35431	8833.2	10289	10191	14768
CPD45	Galactosamine	34914	45811	57344	58256	37170	85832	59595	117000	35553	72477	56197	125000	35663	66599
CPD46	Fructose-6-phosphate	404000	417000	908000	705000	367000	218000	419000	631000	275000	392000	361000	372000	183000	649000
CPD47	Gluconolactone	8752.2	22275	4363.7	7106.8	9684	41715	14280	8397.9	25435	10209	11553	7476.2	8479.6	7301.8
CPD48	Mannosamine	34914	45811	57344	58256	37170	85832	59595	117000	35553	72477	56197	125000	35663	66599
CPD49	Ornithine	26983	14381	45662	12055	16652	15133	17754	36318	42359	104000	24359	94571	62603	15856
CPD50	Pantothenic acid	111000	269000	84725	167000	71591	193000	199000	165000	186000	254000	259000	288000	212000	316000
CPD51	Ribose-5-phosphate	66874	55000	65941	71163	63999	35629	86346	63798	99725	34673	54169	67872	48407	77199
CPD52	Deoxycarnitine	253000	860000	336000	576000	178000	609000	941000	1070000	844000	1250000	695000	1300000	935000	1170000
CPD53	Dopamine	42154	32892	26026	28766	14402	23480	29419	86860	92996	112000	36500	139000	135000	17156
CPD54	Elaidic acid	133000	128000	104000	184000	482000	388000	160000	97167	338000	277000	144000	58916	239000	286000
CPD55	Erucic acid	12569	4077.5	4623.1	8168.6	24921	6023	2738.6	13062	11584	31703	3666.6	1641.4	4718.3	11835
CPD56	Ethanolamine phosphate	23846	47982	21379	52814	23716	41109	50757	97462	72529	85168	53303	94891	52604	62564
CPD57	Ethyl-3-ureidopropionate	43284	99523	169000	66533	78591	108000	76915	434000	138000	149000	59942	252000	123000	171000
CPD58	Ethylmalonic acid	7563.2	3810	0	9219.3	8943.3	0	0	2658.6	0	6765.9	11302	0	7777.8	8459.4
CPD59	Flavin adenine dinucleotide	33849	239000	88698	22602	19953	10890	30019	50348	151000	88977	27329	8082.9	26964	24024
CPD60	Fumarate	137000	86613	53094	64069	60066	94072	82539	80451	129000	95247	79900	131000	124000	60424
CPD61	Galactarate	38767	57200	12037	14639	11853	41087	108000	8477.7	20110	19956	32694	53766	40559	13780
CPD62	Gluconic acid	213000	208000	112000	159000	173000	246000	167000	159000	307000	259000	171000	205000	233000	185000
CPD63	Glucosamine	34914	45811	57344	58256	37170	85832	59595	117000	35553	72477	56197	125000	35663	66599

CPD64	Glucose	459000	522000	621000	557000	455000	1260000	754000	517000	666000	376000	464000	578000	257000	380000
CPD65	Glucuronic acid	47450	59013	30457	61833	55503	34631	40873	45770	65486	51089	44465	44880	21240	66997
CPD66	Glutamic acid	2990000	3360000	2820000	4400000	1770000	3650000	1680000	8590000	4620000	5960000	3990000	5090000	2480000	2910000
CPD67	Glutamine	85724	137000	100000	67711	56844	78117	106000	113000	197000	71136	58385	76131	39185	58822
CPD68	Glutarate	1172.2	2651.3	2114.7	9132.4	9081	581.85	966.33	1529.9	295.85	6589.2	11648	442.19	8027.2	6825.5
CPD69	Glutathione	772000	3340000	1100000	2240000	1370000	9930000	9660000	1090000	2430000	1240000	14500000	14800000	13200000	15400000
CPD70	Glycerol 2-phosphate	432000	291000	557000	441000	499000	477000	568000	514000	702000	551000	426000	610000	278000	377000
CPD71	Glycine	20709	25278	12966	32603	19770	46653	43266	49794	38052	72858	27941	61388	43502	46481
CPD72	Guanine	119000	208000	21766	306000	62976	83779	77739	525000	78803	92753	179000	45630	77085	225000
CPD73	Guanosine	88044	48213	22770	119000	67338	2709.6	16565	80630	13183	15362	108000	13189	26100	78541
CPD74	GMP	196000	210000	187000	136000	70177	180000	254000	505000	289000	543000	220000	392000	279000	212000
CPD75	Glucose-6-phosphate	124000	331000	204000	160000	97807	286000	239000	380000	210000	447000	205000	501000	123000	243000
CPD76	Hippurate	2580000	2300000	1140000	2150000	1170000	4260000	2850000	2390000	3730000	8000000	4520000	3490000	5290000	3580000
CPD77	Histidine	2690000	880000	1940000	1310000	1680000	1210000	1160000	4230000	3200000	3400000	3720000	4330000	2170000	1540000
CPD78	Homoserine	508000	782000	450000	260000	179000	409000	676000	975000	1080000	1500000	537000	1940000	1170000	786000
CPD79	Hydroxyisobutyric acid	63916	27263	28848	47621	30627	28626	27524	17399	29702	46227	66708	76966	58290	30212
CPD80	Hypotaurine	12012	46711	24622	13466	9395	42621	46394	31664	67529	41857	18933	46498	38904	32743
CPD81	Hypoxanthine	1790000	1940000	707000	3150000	1890000	3000000	2490000	3540000	2790000	3790000	4280000	1480000	1960000	4020000
CPD82	Inosine	1190000	397000	265000	1010000	1270000	306000	501000	456000	400000	343000	1080000	268000	530000	999000
CPD83	IMP	438000	976000	486000	1050000	853000	973000	658000	2080000	398000	2190000	838000	940000	818000	1210000
CPD84	Inosine 5'-phosphate	451000	577000	548000	1230000	1760000	1230000	1120000	1150000	383000	1120000	1030000	592000	766000	1630000
CPD85	Isoleucine	3830000	3430000	2060000	1870000	1120000	2490000	2080000	6490000	8770000	9570000	3630000	18000000	11200000	2130000
CPD86	Kynurenine	76712	16001	10744	9614.4	12304	13609	14971	39652	92959	106000	36815	103000	12953	20185
CPD87	Aminocyclopropane-1-carboxylate	183000	418000	343000	273000	128000	215000	220000	681000	302000	791000	217000	547000	234000	306000
CPD88	Oleoyl-rac-glycerol	150000	66069	38934	710000	417000	365000	110000	621000	169000	618000	423000	297000	172000	290000
CPD89	Lauric acid	18792	39675	16080	14220	28404	41409	14928	9938.3	11058	10403	9622	12772	6646.8	13239
CPD90	Lauroylcarnitine A104	13856	4774.9	2981.8	32989	12561	17776	17242	20133	16656	37115	37560	25464	17228	41375
CPD91	Leucine	3830000	3430000	2060000	1870000	1120000	2490000	2080000	6490000	8770000	9570000	3630000	18000000	11200000	2130000
CPD92	Lysine	758000	334000	375000	596000	413000	476000	668000	1330000	1170000	1610000	1020000	2990000	1800000	667000
CPD93	Malate	900000	519000	362000	434000	398000	635000	554000	560000	767000	626000	491000	943000	806000	386000
CPD94	Maleic acid	132000	68563	52535	65120	62010	92285	80522	81585	86755	96330	80444	131000	125000	60393
CPD95	Menquinone	2289.3	2091.3	2404.6	1293.2	2326.5	0	1863.8	340.2	0	2690.4	705.16	1191.3	996.44	1250.1
CPD96	Methylmalonate	240000	81850	66527	99698	77553	38157	67433	85827	140000	90288	159000	283000	226000	70626
CPD97	Myristic acid	25352	46163	47055	40361	45126	61534	35527	16023	44873	30826	35578	16634	16785	36618
CPD98	Acetylneuraminat	24111	20675	21200	40148	30195	25873	9614.7	27920	26863	22504	27214	16948	11240	20457
CPD99	Methyl-aspartic acid	279000	284000	276000	292000	201000	264000	148000	374000	389000	206000	116000	240000	102000	76981
CPD100	Methyl-glutarate	215000	79646	104000	103000	55502	84467	45459	313000	255000	307000	268000	276000	139000	104000
CPD101	Methyl-histidine	183000	255000	151000	260000	119000	261000	151000	481000	224000	434000	289000	321000	217000	272000
CPD102	NAD	440000	685000	488000	516000	425000	413000	351000	620000	319000	470000	415000	298000	332000	554000
CPD103	NE,NE,NE-Trimethyllysine	506000	1040000	222000	970000	1220000	449000	527000	736000	881000	1440000	1450000	752000	1160000	890000
CPD104	Nicotinamide	618000	769000	351000	1570000	661000	2160000	849000	755000	1260000	1800000	1410000	1040000	1080000	1390000
CPD105	Norvaline	33400000	33100000	16200000	19500000	14000000	28700000	27700000	49900000	41600000	53300000	44600000	32100000	20800000	33100000
CPD106	Acetyl-serine	279000	283000	272000	293000	200000	262000	148000	374000	386000	205000	205000	235000	72036	76981
CPD107	Phosphoserine	10563	16573	12016	17846	4941.8	11672	7865.1	32468	17176	18210	12370	16690	10607	10646
CPD108	Ophthalmic acid	50472	8108.8	6886.7	24616	25002	38898	3191.4	16044	0	6059.1	27866	6451.9	8972.6	10135
CPD109	Ornithine	26983	14381	45662	12055	16652	15133	17754	36318	42359	104000	24359	94571	62603	15856
CPD110	Palmitate	253000	688000	494000	280000	432000	571000	573000	275000	777000	535000	228000	192000	323000	681000
CPD111	Palmitoleic acid	20694	28950	17529	41080	86742	84589	34125	17546	53390	92454	34904	11751	23507	43025
CPD112	Petroselinic acid	133000	128000	104000	184000	482000	388000	160000	97167	338000	277000	144000	58916	239000	286000
CPD113	Phenylalanine	2470000	2610000	1130000	1390000	951000	971000	1370000	3350000	7480000	6020000	2180000	13200000	8760000	1520000
CPD114	Phosphocholine chloride	3310000	22400000	11900000	7080000	2980000	6820000	22000000	6390000	31600000	16200000	5730000	23700000	21800000	15000000
CPD115	Phosphocreatine	116000	279000	264000	141000	46002	82844	131000	349000	276000	202000	223000	148000	113000	220000
CPD116	Proline	3770000	4860000	4750000	3010000	1980000	6350000	5220000	7790000	8860000	13400000	6070000	6230000	3530000	4530000
CPD117	Putrescine	9076.1	5865.7	4517.8	23071	8904.7	46592	29007	9467.5	7931	20408	20738	57574	30859	27315
CPD118	Rac-glycerol-myristate	16071	5980	4485.5	63577	43133	37962	10025	67752	18042	70858	47246	29780	18033	26873
CPD119	Retinoate	292000	258000	173000	774000	484000	858000	285000	777000	327000	1140000	640000	549000	232000	395000
CPD120	Riboflavin	25266	17568	11224	24362	22246	35429	24844	52524	27385	66066	58012	37911	35238	33266
CPD121	Ribose	8102.6	13250	12389	9077.1	14877	18016	14566	9485.7	12650	8880.6	9030.4	13038	9500.4	14508
CPD122	5'-adenosyl-homocysteine	46957	41338	11840	18423	14472	17082	7897.5	15803	28308	37506	20468	49068	41180	22838
CPD123	Saccharic acid	38767	57200	12037	14639	11853	41087	108000	8477.7	20110	19956	32694	53766	40559	13780
CPD124	Sarcosine	419000	396000	384000	432000	274000	630000	475000	944000	745000	1370000	605000	1570000	956000	498000
CPD125	Serine	140000	164000	141000	87010	81734	91093	110000	284000	308000	365000	170000	659000	384000	150000
CPD126	Sodium benzoate	186000	224000	147000	37565	64791	11640	17107	36120	102000	42437	19836	8142	12139	14414
CPD127	Sodium gluconate	8752.2	22275	4363.7	7106.8	9684	41715	14280	8397.9	25435	10209	11553	7476.2	8479.6	7301.8
CPD128	Spermidine	347000	299000	381000	673000	494000	1060000	729000	250000	606000	674000	927000	1880000	1240000	1430000

CPD129	Sphinganine	69873	90119	192000	116000	78366	111000	103000	325000	145000	170000	67402	228000	140000	146000
CPD130	Sphingomyelin	118000	109000	59183	245000	155000	120000	93734	386000	210000	535000	169000	198000	135000	244000
CPD131	Stachyonse hydrate	72268	15588	58227	104000	84492	178000	39431	42809	18110	46751	61173	55726	15155	56493
CPD132	Suberic acid	17423	16388	32505	18597	31842	2621.1	11640	7527.5	5762.4	12147	7956	12087	6588.8	12958
CPD133	Succinate	240000	81850	66527	99698	77553	38157	67433	85827	140000	90288	159000	283000	226000	70626
CPD134	Sucrose	144000	25788	72472	286000	239000	731000	138000	174000	53189	190000	207000	233000	56103	121000
CPD135	Taurine	2540000	4970000	4600000	4150000	2310000	3400000	4720000	7250000	4800000	5870000	3990000	7790000	4640000	5500000
CPD136	Theophylline	226000	178000	93519	210000	103000	388000	237000	274000	330000	691000	414000	300000	447000	305000
CPD137	Threonine	508000	782000	450000	260000	179000	409000	676000	975000	1080000	1500000	537000	1940000	1170000	786000
CPD138	Tocopherol	243000	347000	85774	188000	65411	608000	374000	179000	488000	814000	435000	659000	337000	619000
CPD139	Trans-4-hydroxyproline	297000	602000	304000	300000	275000	775000	328000	781000	477000	969000	588000	620000	327000	413000
CPD140	Trigonelline	3000000	4290000	1080000	9440000	4780000	7850000	6490000	4290000	5550000	7630000	12900000	6130000	6620000	11600000
CPD141	Tryptophan	497000	447000	223000	267000	153000	210000	319000	648000	1190000	1210000	413000	1460000	1400000	305000
CPD142	Tyrosine	291000	102000	78124	124000	132000	66026	56165	203000	82757	195000	123000	358000	256000	74620
CPD143	Urate	170000	150000	76593	208000	103000	225000	296000	389000	341000	336000	215000	412000	296000	87293
CPD144	Uridine	79170	70200	16864	47961	48114	1944.9	39326	30765	37346	24915	44384	30334	55581	40050
CPD145	UDP	11804	40951	63798	27378	12168	10998	12845	46547	40008	103000	27874	34234	28515	41937
CPD146	UDP-acetylgalactosamine	18502	315000	276000	126000	61884	35162	162000	316000	313000	185000	71604	143000	93496	256000
CPD147	UDP-acetylglucosamine	18502	315000	276000	126000	61884	35162	162000	316000	313000	185000	71604	143000	93496	256000
CPD148	UDP-galactose	13676	212000	329000	51721	27963	44678	173000	140000	148000	123000	35646	50031	22533	110000
CPD149	UMP	127000	169000	164000	134000	149000	171000	427000	153000	230000	187000	164000	406000	318000	202000
CPD150	Valine	33400000	33100000	16200000	19500000	14000000	28700000	27700000	49900000	41600000	53300000	44600000	32100000	20800000	32600000
CPD151	Xanthine	62938	114000	30479	302000	119000	381000	263000	342000	203000	556000	408000	198000	241000	413000
CPD152	Aspartic acid	268.5613106	250.3561376	220.2187711	214.5296262	430.6595522	214.353831	171.1677188	238.2063557	179.1565341	498.5883441	166.3305193	171.6538411	565.9711942	481.215776
CPD153	Deoxycholic acid	1470.774477	667.9596063	894.4328531	922.0150397	1070.061993	959.0894618	1155.646871	173.2362093	690.7034903	781.9852508	311.7211618	1629.501938	650.8978849	1480.671277
CPD154	Phenylpyruvic acid	433.6657594	339.3821923	1180.994932	822.0747371	1455.905135	786.8038468	475.0601117	1043.916378	621.4780523	2479.765338	462.3805476	257.1863928	1421.037574	1289.891478
CPD155	Resveratrol 3-O-glucuronide	9.440968549	33.89203042	50.29584424	4.198577851	7.925216615	1.519134521	20.49930228	2.958861048	5.80569455	12.54371104	3.407367807	0.927032441	4.309634445	2.138366699
CPD156	Retinyl Beta-glucuronide	304.0538682	2.33391777	5.381504912	411.2656918	562.9301597	102.8453137	16.46002877	66.52168993	2.95982458	58.69302639	449.6346167	121.4489636	47.36349199	215.9537448
CPD157	Phenylacetylamine	879.9834913	395.8777675	202.5164227	341.7114337	168.7413101	157.3063922	265.7455036	468.2540253	514.5134426	623.6171427	386.2951531	1178.079956	870.0518929	192.9989956
CPD158	Oleamide	1152.33116	1138.869808	452.8170479	951.6924282	1750.564821	780.506277	702.3863232	179.4757915	263.5561066	538.0192389	478.2738957	411.7639205	297.1954836	1012.049632
CPD159	Pipecolic acid	917.156332	453.1268107	492.3324559	531.6460594	604.7676605	692.3460103	871.0055569	1033.533384	1394.639202	1024.808028	1323.519817	2111.534262	1785.140901	574.8522127
CPD160	Linoleoyl Ethanolamide	573.0097949	252.0706296	18.43481953	125.3561842	324.5855966	0.665937884	24.72391139	355.99579	252.232772	1175.724694	657.7430985	1148.57081	887.8701961	271.7444221
CPD161	Alloisoleucine	10300.90162	10705.82773	7526.808972	2987.214881	3316.481235	6492.39177	5933.668606	9677.633765	17037.78866	12370.30292	7344.397995	23279.32207	18991.78173	4289.709537
CPD162	Kynurenine	174.4022746	61.22609311	0	0	21.41359482	29.85380272	4.428137109	29.71419174	272.0417908	63.79779639	63.20887543	119.1929799	36.30514038	17.86745368
CPD163	Argininosuccinic acid	133.8960599	2.076115142	50.55171033	8.900181972	28.39048807	15.53109708	126.7456835	222.119125	328.8177261	221.5341392	148.7158459	243.62713	399.2520304	10.89526304
CPD164	8,11,14-Eicosatetraynoic acid	158.0146798	33.9060286	17.64653619	117.4889201	1204.222377	3985.242739	172.7687359	64.7824676	442.7725207	614.3312763	653.4978097	72.33793173	355.4592168	165.7214322
CPD165	Hydroxyhexadocosahexaenoic acid	979.6610921	195.8972559	89.89189263	433.3163724	3521.431761	16798.49247	822.7136946	371.4969997	1829.755003	1737.064694	1666.598201	536.3537359	1123.409303	809.3078519
CPD166	Flavonol 3-O-D-galactoside	819.4833274	872.5789416	1237.183902	926.7695969	1259.404424	2154.413189	1500.489983	1202.514537	672.687364	699.8543791	1049.10641	853.5193116	924.3848498	1511.021927
CPD167	Monacolin J acid	47.47173075	108.3186545	58.67138618	120.235939	124.6163367	76.08623478	25.21522846	130.3015282	115.9042218	96.51861966	252.4407521	198.4843295	104.5971687	369.5094308
CPD168	Kryptogenin	194.6209561	19.3383894	6.423857954	4154.009306	1482.830634	3452.043684	447.7128037	138.5712603	23.81083116	181.7983673	1342.250784	182.7169423	387.8975358	106.5524813
CPD169	D-myo-Inositol 1,2-cyclic phosphate	40.40805107	5.164298774	16.89088538	37.12733969	66.36971201	182.2349406	165.6924394	29.38306511	15.62281125	58.75396873	22.58800874	19.43707126	24.8408674	71.81239407
CPD170	N-Hydroxy-L-valine	171.2465045	100.3294852	305.851339	42.25623384	84.90043746	60.45140355	105.8713143	211.546263	199.8885855	250.7469105	77.62467854	379.9181921	337.6879648	61.14223797
CPD171	Lipoic acid	68.50414468	14.95980179	6.742729523	27.94442011	38.79431352	35.91573694	59.91556045	59.00647047	87.00567973	72.1372277	80.47756911	145.2481625	164.0947368	42.94003056
CPD172	4-Sulfobenzoate	79.54811583	17.37282154	21.53119848	64.35404792	24.62709199	17.55794485	7.93078793	2.961159107	8.647237249	19.92671224	2.046374614	16.86563558	35.02250057	13.56042685
CPD173	4-Hydroxyphenylglyoxylate	60.12026128	67.8330518	13.04880484	28.52882941	34.30647046	10.76456481	7.697805811	9.938502197	12.73819765	8.62280699	5.649867876	10.26459893	20.49434862	5.309231468

Liver 19	Liver 20	Liver 21	Liver 22	Liver 23	Liver 24	Liver 25	Liver 26	Liver 27	Liver 28	Liver 29	Liver 30	Liver 31	Liver 32	Liver 33	Liver 34	Liver 35	Liver 36
Control	Control	Control	Control	Control	Control	Control	Control	Control	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate
733000	709000	726000	1080000	1260000	910000	956000	863000	1010000	378000	798000	544000	636000	552000	811000	877000	392000	376000
165000	58112	47028	52846	25912	38168	25038	19419	60387	44511	42387	23115	42573	49332	115000	49911	19845	28319
208000	82473	65013	85956	29184	62141	85546	89760	113000	74861	72143	15299	45520	51585	175000	65523	84257	74136
684000	149000	195000	261000	153000	87885	177000	310000	265000	340000	286000	105000	343000	343000	666000	107000	230000	170000
3612.2	8098.4	4984.3	10016	10339	10637	8881	11154	0	1803.1	6960.8	4245.2	5479.8	6691.8	10033	13066	4874.9	13321
49545	34365	33686	43863	43485	29789	37807	41434	41142	38430	78344	42381	80075	54133	41122	1765.3	40629	46159
217000	129000	64362	49799	55129	24057	79227	49405	136000	50224	54839	23588	108000	101000	126000	55529	26413	10298
684000	149000	195000	261000	153000	87885	177000	310000	265000	340000	286000	105000	343000	343000	666000	107000	230000	170000
1440000	404000	437000	264000	184000	216000	296000	442000	154000	978000	927000	252000	409000	478000	648000	186000	120000	150000
1440000	404000	437000	264000	184000	216000	296000	442000	154000	978000	927000	252000	409000	478000	648000	186000	120000	150000
48400000	22600000	17900000	15700000	18200000	8810000	13700000	17200000	17900000	43100000	33800000	12500000	18500000	48000000	38100000	17900000	17000000	8460000
51449	14219	14960	60524	31577	19459	32030	21466	12391	7084.4	22310	41065	31816	22544	26583	8623.6	8692.6	27995
61955	208000	59916	57789	30058	60331	59502	68571	34290	308000	237000	23195	140000	421000	34190	71117	32244	26317
705000	300000	274000	813000	428000	643000	273000	497000	230000	282000	605000	494000	398000	618000	696000	357000	828000	879000
14838	5319.1	11950	8979.4	9760.4	40483	20700	9793.3	11180	14548	20182	8852.6	14590	58197	24893	11244	15718	28340
284000	269000	122000	196000	63144	63851	190000	241000	86229	260000	236000	41778	140000	93471	328000	40605	412000	237000
364000	843000	424000	48461	98761	130000	87897	239000	65119	321000	620000	316000	119000	111000	81701	87106	110000	90607
44146	27221	40533	19771	317000	21024	31573	46451	27234	52012	73136	315700	35757	29190	30876	11422	9057.1	23214
6450000	6310000	3080000	1610000	1720000	1640000	1980000	2580000	1440000	3120000	3130000	1290000	1630000	4040000	4010000	2210000	2260000	1110000
364000	781000	424000	17509	35386	130000	35972	199000	22976	243000	617000	295000	30411	41627	57071	48065	96895	27008
892000	577000	409000	322000	190000	194000	532000	325000	489000	406000	527000	191000	520000	504000	744000	372000	220000	194000
485000	732000	653000	245000	423000	167000	900000	254000	398000	413000	838000	257000	635000	952000	634000	729000	285000	232000
915000	335000	257000	142000	171000	133000	293000	177000	298000	303000	319000	126000	185000	343000	362000	238000	208000	125000
219000	112000	85244	48588	40911	40154	52835	63475	129000	89592	92270	27157	100000	53790	126000	55529	35446	35479
978000	877000	885000	820000	788000	651000	1930000	857000	1220000	1220000	835000	531000	3340000	2540000	1940000	1740000	1200000	890000
0	13617	17037	25628	19695	94714	3494.3	5703.7	141000	6801.4	13026	26357	12249	27913	3200.8	13045	20046	113000
152000	52724	57682	69572	28258	41005	71339	65142	64841	101000	62268	24163	248000	47678	165000	42559	69707	40124
266000	205000	129000	119000	63644	81443	122000	139000	207000	119000	70526	218000	167000	358000	127000	97793	132000	
74392	36655	49755	108000	48880	56285	53170	55283	71862	46476	10562	49817	52986	34177	91977	39901	42438	49745
892000	577000	409000	322000	190000	194000	532000	325000	489000	406000	527000	191000	520000	504000	744000	372000	220000	194000
71930	45220	31038	12753	3846.7	22022	5624.1	58355	0	60538	45853	72389	9359	6338.4	11923	0	4206.3	23954
48400000	22600000	17900000	15700000	18200000	8810000	24600000	17200000	17900000	43100000	33800000	12500000	18500000	48000000	38100000	17900000	17000000	8460000
59160	22514	14696	23317	29055	21187	16334	18010	2318.9	26415	3250.8	307.53	1415.3	2460.7	39200	6967.6	2373.1	44086
876000	1150000	633000	510000	460000	495000	908000	489000	545000	579000	1030000	420000	1040000	456000	1050000	328000	576000	304000
1440000	404000	437000	264000	184000	216000	296000	442000	154000	978000	927000	252000	409000	478000	648000	186000	120000	150000
73005	106000	109000	31666	34138	21427	46372	52864	34538	117000	118000	53193	28222	71820	20073	16423	14043	10179
690000	681000	309000	241000	316000	127000	430000	374000	259000	354000	916000	149000	453000	957000	580000	512000	373000	212000
167000	172000	71356	44526	21412	9839.2	45481	60889	53522	83529	127000	38171	65750	77561	50717	33130	39031	24209
32900000	19600000	14000000	10800000	7350000	7260000	14100000	12300000	14500000	15200000	24400000	5230000	26700000	16200000	27500000	9270000	10900000	6490000
488000	385000	275000	74797	78052	52746	88048	127000	139000	269000	662000	104000	332000	298000	214000	139000	122000	95745
536000	6070000	3350000	196000	430000	533000	416000	179000	288000	368000	2790000	550000	262000	4370000	437000	699000	881000	293000
53366	19260	19404	64396	55705	66768	58565	47821	51118	137000	40174	37842	77901	51916	70587	42683	50853	81033
491000	1080000	411000	163000	228000	167000	424000	223000	379000	173000	645000	177000	286000	672000	594000	347000	332000	150000
20726	51431	40225	8132.4	9084.4	14131	16069	52288	13065	29174	32754	73970	9174.8	10591	5922.6	14879	4266.6	0
311000	117000	46119	64849	45655	45085	74724	58819	78279	114000	58743	38816	68743	73128	268000	80423	60607	47562
708000	313000	276000	811000	428000	649000	267000	633000	227000	379000	610000	494000	204000	373000	694000	275000	829000	707000
12120	59487	7940.2	9182.7	12199	12461	9802.3	14259	48642	53240	8820	18523	31333	8544.3	11794	54896	9279.5	21684
311000	117000	46119	64849	45655	45085	74724	58819	78279	114000	58743	38816	68743	73128	268000	80423	60607	47562
74795	14065	13101	21364	17516	8221	31100	10239	25038	10849	15892	17029	62583	31364	18846	20323	10061	
144000	90568	89768	62892	75555	42309	114000	38173	118000	110000	97226	41160	154000	144000	172000	42277	57242	34462
57528	66526	52853	87846	67041	74822	75381	80794	44479	43005	34126	86251	29883	55632	71703	46120	46645	80276
964000	1570000	881000	165000	765000	300000	877000	443000	559000	468000	1850000	274000	1180000	990000	756000	557000	574000	277000
45130	49694	38339	19430	15157	12631	27243	6720.3	35630	25555	33593	9745.7	93268	42669	29724	33364	24960	9930.9
149000	153000	93896	348000	139000	104000	311000	477000	437000	1460000	157000	281000	884000	116000	255000	156000	286000	381000
12161	4748.8	4962.3	16287	6155.5	9569.3	6223.3	21952	12621	82859	9665.6	17044	19826	2458.4	17422	0	11186	24297
71569	87058	38092	44416	30781	26020	48025	46154	50982	34858	55161	19620	68834	71830	112000	70379	27990	39235
346000	115000	84750	155000	52902	61489	119000	117000	150000	96071	111000	40429	83021	84163	270000	92372	124000	108000
1413	4295.1	0	3333.6	6288.1	4897	3300.9	7454.7	5101.5	0	12617	7118.6	13329	69597	6083.8	10814	0	0
116000	177000	77123	13334	22646	26909	18509	114000	39078	135000	104000	108000	37524	23826	21840	14527	23812	20648
43765	76362	65560	42350	55432	56726	74061	66867	57861	57957	64400	50898	82053	69084	46810	56138	59737	63267
23297	6921.8	32710	6192.8	37102	8671.7	56681	14976	25353	13236	31007	28448	25821	75183	30458	45664	27363	6037.2
291000	78292	215000	150000	170000	275000	233000	135000										

458000	1640000	417000	918000	892000	804000	1010000	740000	1750000	1530000	495000	689000	1060000	576000	874000	1720000	421000	677000
47246	37248	45382	72080	64688	67190	46895	72026	61507	64365	43725	32059	36391	38977	26676	53033	37533	77183
5170000	2390000	1590000	1910000	817000	904000	1540000	2850000	2240000	2860000	1720000	806000	4280000	1850000	6750000	1340000	1650000	1050000
39345	126000	36370	92843	45786	70579	65255	90381	124000	105000	22736	65617	146000	21609	92752	204000	50156	133000
2720	2153.9	3388.9	3590.1	4085.9	4543.7	3007.1	7573.8	3202.3	545.93	12611	6364.8	13647	71307	4254.8	1237.4	1814.4	1396.9
16800000	2260000	5140000	3550000	4950000	391000	9630000	6400000	10700000	689000	5400000	306000	11800000	15600000	8240000	5860000	9720000	1330000
697000	339000	433000	518000	349000	455000	498000	544000	430000	349000	362000	328000	303000	303000	552000	273000	230000	517000
91968	54628	38866	30406	20400	19816	53286	27719	45112	22951	38237	14417	57777	48082	69187	35872	20228	13988
448000	83574	62251	200000	59689	35423	28843	254000	157000	229000	111000	66817	412000	189000	250000	21575	104000	58200
49395	15720	14230	73229	33306	59434	36404	85939	23007	27305	40874	31742	68358	56459	66728	14428	49084	73137
752000	577000	302000	118000	107000	90493	174000	286000	233000	343000	320000	133000	160000	298000	259000	172000	143000	97296
915000	335000	445000	142000	171000	133000	293000	177000	298000	303000	538000	171000	185000	709000	362000	238000	208000	125000
6290000	4410000	2460000	1320000	1680000	1150000	2590000	1480000	3620000	3190000	3650000	1090000	2480000	5070000	5300000	2600000	1220000	775000
2640000	1710000	2790000	1340000	756000	626000	1650000	1540000	1570000	1680000	1850000	648000	990000	1160000	2850000	1140000	804000	677000
485000	732000	653000	245000	423000	167000	900000	254000	398000	413000	838000	257000	635000	952000	634000	729000	285000	232000
49545	28811	33686	43863	43485	29789	37807	41434	41142	24012	78344	42381	80075	54133	40858	32404	40629	19181
45415	137000	29874	16910	25203	29663	46076	15803	22818	15815	85760	9686.6	20493	49087	22772	31520	21050	8640.1
4850000	2300000	2380000	2240000	1480000	926000	1600000	2580000	3060000	2880000	2460000	842000	4370000	4630000	4330000	1130000	1410000	1070000
495000	173000	595000	898000	663000	707000	705000	826000	613000	354000	592000	689000	1060000	853000	782000	294000	506000	1080000
2020000	1270000	1370000	548000	453000	412000	717000	768000	1010000	1090000	1600000	608000	807000	1040000	1750000	1290000	443000	332000
960000	713000	1580000	788000	1080000	1160000	678000	885000	784000	687000	1340000	1180000	725000	1110000	1080000	1610000	1070000	1120000
3660000	3770000	2480000	1270000	1400000	774000	2580000	1460000	2640000	2380000	3750000	920000	6690000	4550000	2930000	2320000	1550000	808000
28055	37390	52170	22098	19993	12546	36034	27044	335000	48068	33195	22835	15684	46564	29951	33598	13326	6574.5
389000	269000	215000	163000	135000	99465	240000	209000	186000	179000	225000	91598	369000	418000	491000	216000	160000	118000
307000	106000	73523	372000	41812	78913	195000	478000	306000	2500000	301000	67785	1170000	80648	580000	55578	296000	490000
13104	27369	9398.4	23619	19695	19056	10807	34022	18858	24706	12029	30814	23601	10705	29869	31050	13547	72742
34409	36781	7388.2	22073	6374.2	5665.8	13027	25658	16028	42005	23615	2685	71610	17501	22863	7376	23010	3729.8
3660000	3770000	2480000	1270000	1400000	774000	2580000	1460000	2640000	2380000	3750000	920000	6690000	4550000	2930000	2320000	1550000	808000
864000	454000	712000	466000	481000	282000	920000	497000	754000	547000	593000	282000	1450000	1440000	1100000	714000	566000	365000
269000	430000	430000	294000	379000	399000	526000	441000	333000	332000	457000	320000	484000	450000	290000	319000	351000	354000
41698	76129	67822	43512	56199	57821	75198	67021	58411	51923	65240	50235	66727	70167	44361	49763	57004	64681
5452.2	1180.8	2684.9	1400	3195.4	4119.4	3354	2415.4	1967	588.29	622.72	3039.6	962.78	956.46	6513.1	0	3643.5	0
61540	71423	62929	71112	50934	78902	98106	71424	71552	61535	91392	62699	154000	94449	72292	46865	64615	102000
19502	26330	15946	62533	27586	39110	49734	90099	78054	158000	12090	42136	77523	15379	37650	45540	26478	69978
31933	13591	35006	23280	11788	17731	14226	25216	22415	35493	26135	21787	7451.9	6651.9	16926	13182	17755	30317
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68802	205000	106000	194000	118000	104000	50779	275000	238000	261000	79184	76123	275000	68286	286000	210000	128000	219000
13703	11529	6412.6	7276.6	3698.9	4938	6650.8	10080	6531.3	9542.5	9089.6	2608.7	13342	7860.2	23860	3686.8	5852.3	3418.4
32572	0	7475.6	14472	0	5923.2	2012.8	8003.8	0	13405	1934.2	1916.6	7501.7	2147.2	7018.4	0	2458.9	7507.8
74795	14065	13101	21364	17516	8221	31100	10239	25038	10849	15892	17029	11948	62583	31364	18846	20323	10061
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24167	22748	22326	50324	19162	45408	67379	121000	86791	376000	41154	68095	310000	19580	56250	36556	48696	141000
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16157	28238	27694	21550	29722	17480	11238	7819.5	32754	24959	37131	36098	21065	9041.8	28368	5178.5		
23297	6921.8	32710	6192.8	37102	8671.7	56681	14976	25353	13236	31007	28448	25821	75183	30458	45664	27363	6037.2
892000	577000	409000	322000	190000	194000	532000	325000	489000	406000	527000	191000	520000	504000	744000	372000	220000	194000
226000	171000	148000	75556	81731	65362	167000	66706	124000	81570	144000	53717	168000	155000	172000	133000	73111	57

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485000	732000	653000	245000	423000	167000	900000	254000	398000	413000	838000	257000	635000	952000	634000	729000	285000	232000
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218.6970132	77.43219293	252.7801073	243.1350212	137.2780495	486.7658525	334.3434219	134.3742701	399.5152231	253.3187481	242.7502526	512.5464182	429.2368874	274.6878665	168.8206063	236.4346355	650.7526104	927.8413034
953.900176	724.4582518	971.2993369	1060.109269	888.2024212	1042.017268	662.6529738	944.8448291	7173.776859	1260.140991	3737.523333	921.1706321	1063.711181	916.9232825	1201.600006	1043.76165	783.4372904	944.8913623
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22.2212918	19.62430855	286.1523945	12.13050416	0	0	0.619814923	0	2.437970065	449.3822249	1798.767808	10.74490117	44.44914574	3.683391989	63.98212934	143.0964626	25.78008642	10.21352939
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5.276507266	5.789482433	26.46153383	9.368958651	69.97183282	13.1186049	7.255652006	16.85422177	0.258119956	23.86590032	13.93204655	15.7781912	24.65859948	17.22000578	9.377289134	9.322163736	6.371815362	8.918317705

Liver 37	Liver 38	Liver 39	Liver 40	Liver 41	Liver 42	Liver 43	Liver 44	Liver 45	Liver 46	Liver 47	Liver 48	Liver 49	Liver 50	Liver 51	Liver 52	Liver 53	Liver 54
Control	Control	Control	Control	Control	Control	Control	Control	Control	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate	Nitrate
468000	781000	850000	801000	609000	1070000	880000	518000	638000	428000	710000	618000	610000	736000	862000	1050000	724000	688000
8544.9	125000	61019	61654	59834	30350	28611	42438	47539	55446	123000	41927	161000	48256	141000	49516	19092	37022
55604	171000	77954	68578	119000	34249	30644	45496	39962	79755	192000	73119	183000	34497	189000	99911	30998	59719
445000	125000	82953	693000	136000	432000	92620	188000	337000	540000	298000	235000	499000	392000	571000	236000	321000	329000
4162.1	10036	4904.2	5327.8	7978.5	6058.8	9265.4	11536	5135.2	3435	17115	5382	4616.5	4569.6	12864	9708.6	4145.4	6838.4
42897	34206	35997	56106	37350	55631	75278	75674	37113	52875	51270	35039	30023	61782	39241	55044	114000	47012
32630	104000	25349	124000	73421	69451	51132	8096.4	71618	19136	38870	24489	39692	79183	48546	110000	74129	37005
445000	125000	82953	693000	136000	432000	92620	188000	337000	540000	298000	235000	499000	392000	571000	236000	321000	329000
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17147	38934	12822	61277	39210	50972	30220	30223	30645	22366	40230	21342	38887	44268	70948	16513	26051	31528
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382000	411000	161000	222000	200000	69762	145000	105000	97559	551000	446000	382000	240000	219000	72465	85378	155000	183000
63604	32280	23300	36966	35355	44431	33953	28591	30209	51206	24270	20528	121000	63840	16162	12342	13766	21519
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4433.9	1598.6	11688	5807.5	53550	4121.7	4920.1	23450	2328.5	3231.8	119000	13705	0	231000	0	6214.6	11865	185000
90222	102000	18271	128000	58217	87749	28925	41261	81671	124000	77695	44491	288000	17944	163000	38431	54017	69295
206000	231000	55428	204000	209000	189000	90915	88221	146000	263000	204000	165000	496000	142000	334000	111000	90823	108000
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377000	511000	197000	647000	396000	502000	284000	131000	392000	397000	419000	315000	563000	384000	597000	487000	367000	277000
30677	30972	16343	13908	7141.5	10930	5602.2	7345	9981.3	37268	40830	46035	25705	10781	15981	4633.2	4215.8	11187
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239000	52571	48397	94738	18765	45019	38361	59905	72226	53043	107000	65645	27508	279000	40921	25846	20822	182000
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1719.040219	20.47843574	14.55635062	300.8841064	208.0289952	434.8244268	282.4833244	361.5439172	297.1607311	21.66802464	6.534080243	1.64622383	130.3419721	65.63976818	9.197011566	0.189087898	1028.365917	1048.735084
171.0236896	191.7480911	220.8766488	120.7746759	121.2019893	89.05697668	172.7908446	244.628652	228.7409459	192.1668045	91.22995802	162.0265817	25.57330203	81.89862464	75.21322726	380.2832403	134.7583382	66.04071715
43.83336307	127.0668306	54.24095728	87.114366	105.9137204	61.13712243	92.87424869	34.3750917	85.10194459	34.97808044	185.1055421	74.79909161	74.68177693	109.8295824	139.5481467	101.0279407	49.57801529	52.30139593
34.95128904	39.6373623	25.58130913	39.77584098	38.86643581	51.34846117	55.87948581	44.55234807	84.20776204	28.75715129	26.9327377	27.7815883	37.24923972	98.6269746	9.255152334	87.98118513	20.79785368	42.47053392
27.33905486	10.46581918	9.429319918	19.26462157	21.80039535	143.2239735	45.1972948	89.24414599	171.656575	118.1096156	38.5752764	71.70511188	46.03723639	237.5128018	31.76795108	17.42327773	38.76257172	42.85444517
9.042824719	20.74796069	8.934365952	10.48763966	14.46578984	54.79979068	18.223074	26.93234068	45.35492366	34.42035461	11.33094431	39.24027146	42.80866978	91.23148899	35.48884384	22.90739289	31.39334768	31.98293356