

Table. S1 The composition of experimental diet.

Ingredient	ND/g	HFD/g
casein	189.58	233.06
L-cystine	2.84	3.5
Cornstarch	298.59	84.83
Maltodextrin	33.18	116.53
Sucrose	331.77	201.36
Cellulose	47.4	58.26
Soybean oil	23.7	29.13
Lard	18.96	206.84
M1002 mineral mix	9.48	11.65
Calcium hydrogenphosphate	12.32	15.15
Calcium carbonate	5.21	6.41
Potassium citrate	15.64	19.23
V1001 vitamin mixture	9.48	11.56
Choline bitartrate	1.9	1.9
Food dye	0.047	0.058
Total	1000	1000

Table. S2 Primer sequences used for qRT-PCR

Gene	Primer Sequence
<i>β-Actin</i>	F:5'-AGGCTGTGCTGTCCCTGTAT-3'
	R:5'-ACCCAAGAAGGAAGGCTGGA-3'
<i>AMPK</i>	F:5'-AGTGTTCCGAGGAGGAGGT-3'
	R:5'-TGTCTATGATGAGGTGGTAGGC-3'
<i>SREBP1c</i>	F:5'-TTCAGAAGTTGCGGTCACAC-3'
	R:5'-CTGGTTGCTCTGCTGAAG-3'
<i>PPARα</i>	F:5'-TCCACGAAGCCTACCTGAAG-3'
	R:5'-GAATCGGACCTCTGCCTCTT-3'
<i>AdipoR1</i>	F:5'-GTCAAACGTGACGGCTCTCC-3'
	R:5'-GTCAAACGTGACGGCTCTCC-3'
<i>FAS</i>	F:5'-AAGGAGTACATGGACAAGAACC-3'
	R:5'-CAGGAGAATCGCAGTAGAAGTC-3'
<i>LXRα</i>	F:5'-ATTCTTCCGCCGAGTGT-3'
	R:5'-AGGACTTGAGGAGGTGAGGA-3'
<i>SCD-1</i>	F:5'-CACAACTACCACCACACCTTC-3'
	R:5'-CCGTCTCCAGTTCTCTTAATCC-3'

Fig. S1

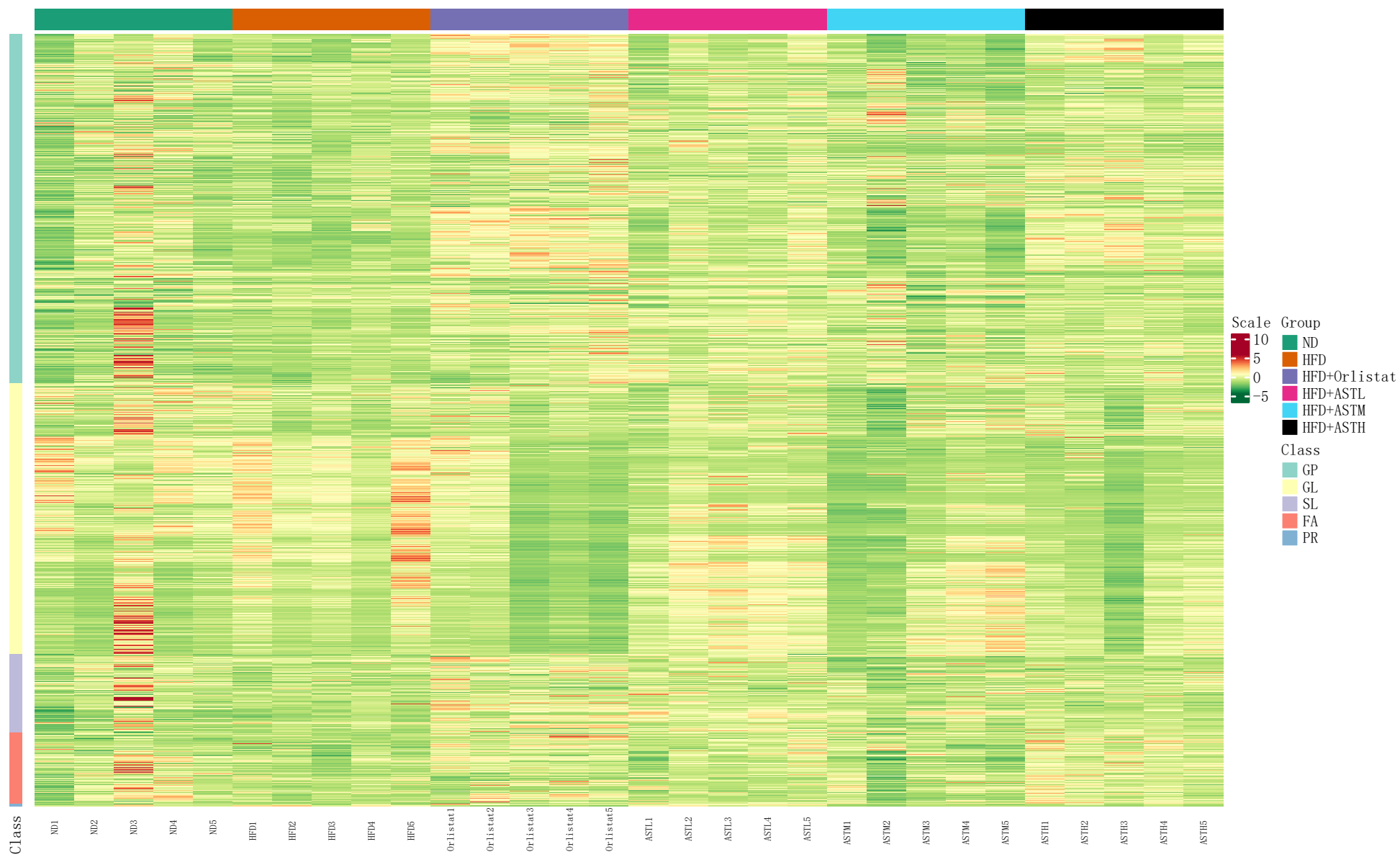
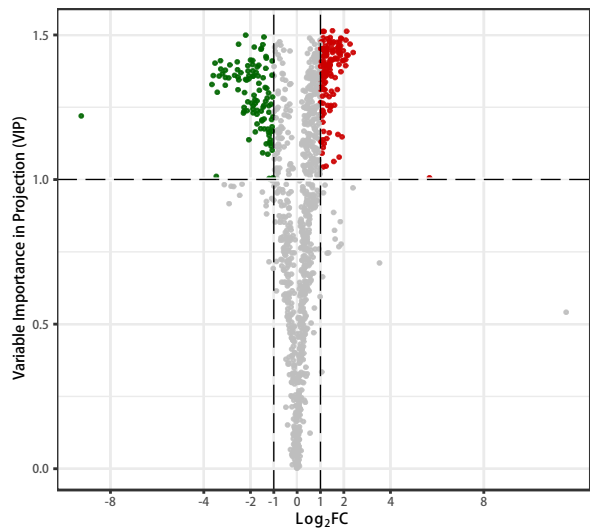


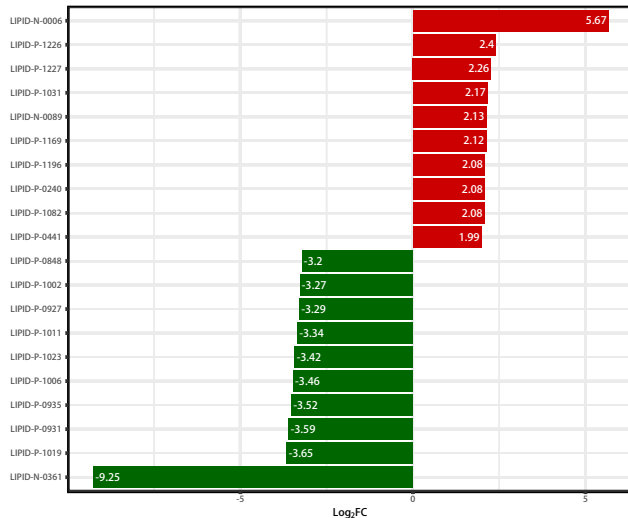
Fig. S2

A

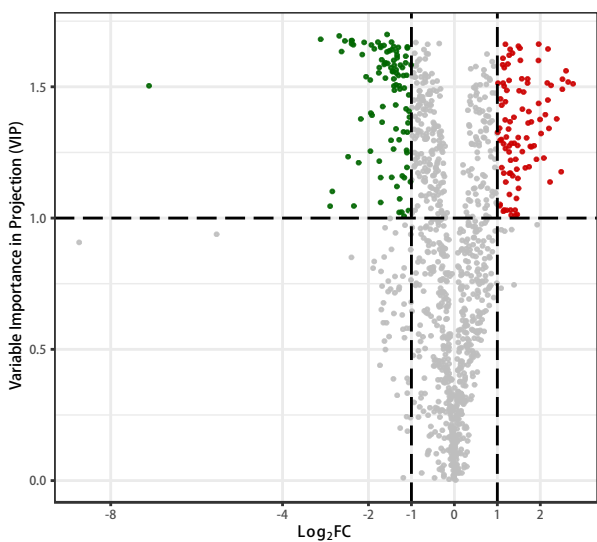


Statistics ● Down: 108 ● Insignificant: 801 ● Up: 149

B



C



Statistics ● Down: 99 ● Insignificant: 863 ● Up: 96

D

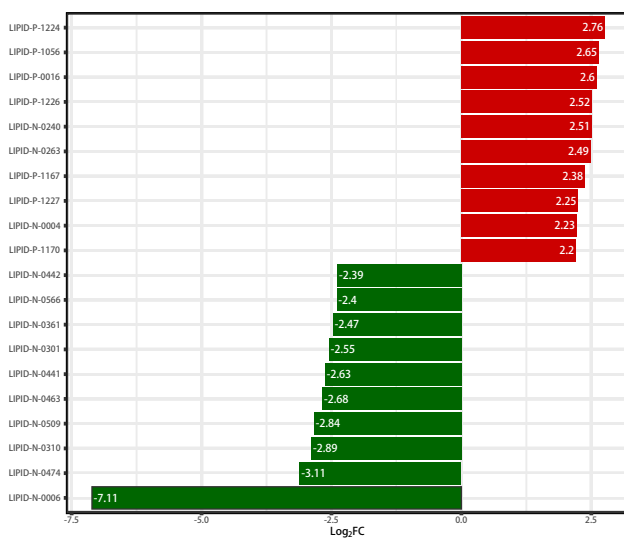


Fig. S4

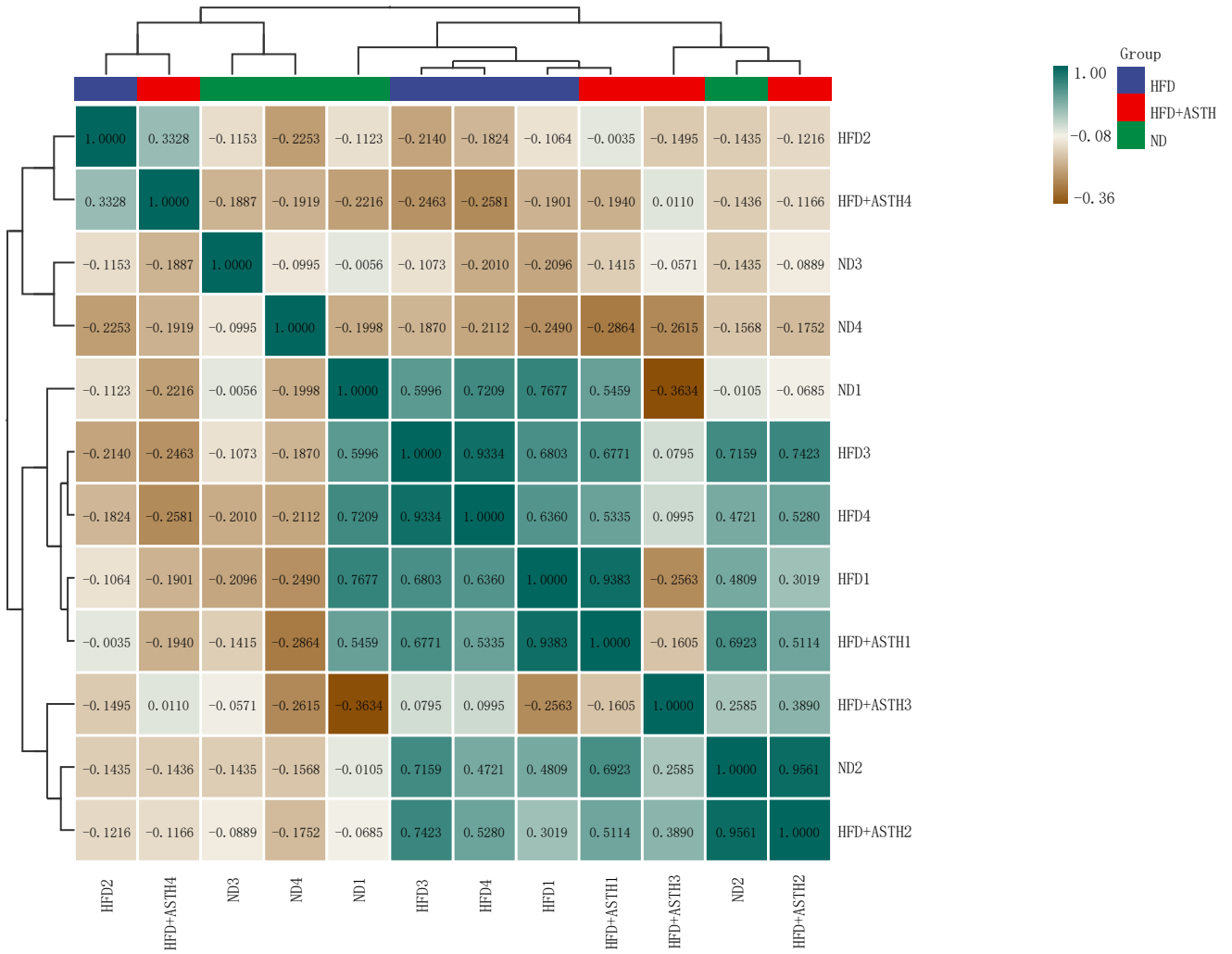


Table. S3

The statistics of metabolites

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HFD1	HFD2	HFD3	HFD4	HFD5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LPID-N-0001	taurothiocholic acid-3-sulf	牛磺石胆酸-3-硫酸盐	FA	脂防酸类	BA	胆汁酸	C26H45NO8S2	11522	15459	7839.2	11800	10072	13054	12119	14121	9781.6	11078	8262.5	13742	22839	14915	17257
LPID-N-0004	3-oxodeoxycholic acid	3-氧化脱氧胆酸	FA	脂防酸类	BA	胆汁酸	C24H38O3	25465	90553	63403	77285	73371	49038	52369	29747	49814	43910	146700	70403	93518	119490	67422
LPID-N-0005	Chenodeoxycholic acid	鹅脱氧胆酸	FA	脂防酸类	BA	胆汁酸	C24H40O4	61719	225940	184350	181760	187970	159230	148160	123030	114910	180510	234200	222160	242970	218900	234290
LPID-N-0006	Ursodeoxycholic acid	熊脱氧胆酸	FA	脂防酸类	BA	胆汁酸	C24H40O4	9	9	9	9	9	49499	9	9	9	9	9	9	78923	9	9
LPID-N-0007	norcholic acid	去甲胆酸	FA	脂防酸类	BA	胆汁酸	C24H38O3	270310	118350	91951	143030	184840	264300	307750	158660	131310	222200	228290	302310	340480	215600	169160
LPID-N-0009	12-Oxocholestenoylcholic acid	12-氧代鹅脱氧胆酸	FA	脂防酸类	BA	胆汁酸	C24H38O3	9	9	375120	9	9	9	9	76402	9	9	109200	173340	9	163990	197480
LPID-N-0010	Ursolic acid	熊胆酸	FA	脂防酸类	BA	胆汁酸	C24H40O5	1366800	641310	5404400	920000	826800	1066600	907230	1828800	792850	1350100	2740300	3783900	557930	3514400	3989500
LPID-N-0014	lithocholic acid-3-sulfate	石胆酸-3-硫酸盐	FA	脂防酸类	BA	胆汁酸	C24H38O3	67061	9	104690	98806	9	9	9	9	9	9	53638	91735	9	97881	9
LPID-N-0015	Glycocholic acid	甘氨酸胆酸	FA	脂防酸类	BA	胆汁酸	C26H43NO6	138000	71835	110850	114600	97412	125080	143750	122210	113760	126410	155650	191670	193360	156020	136070
LPID-N-0016	Taurochenodeoxycholic acid	牛磺鹅脱氧胆酸	FA	脂防酸类	BA	胆汁酸	C26H45NO6S	6325000	8985100	23480000	14588000	6178600	15348000	15632000	22262000	12983000	17293000	18520000	42361000	12152000	26630000	45436000
LPID-N-0017	Taurocholic acid	牛磺胆酸	FA	脂防酸类	BA	胆汁酸	C26H45NO7S	2800200	2700000	15254000	4940800	2257200	8304900	7002200	12357000	6425200	9905400	10721000	18774000	3580300	15236000	20943000
LPID-N-0022	12,13-EpOME	氧化脂质_12,13-EpOME	FA	脂防酸类	Eicosanoid	氧化脂质	C18H32O3	24716	25770	34642	22778	26282	19510	34673	15426	40776	21923	151840	51983	63040	116420	52398
LPID-N-0023	9,10-EpOME	氧化脂质_9,10-EpOME	FA	脂防酸类	Eicosanoid	氧化脂质	C18H32O3	20697	25356	37673	22085	21052	19100	33520	10988	36843	18268	141310	52333	81756	126240	55049
LPID-N-0024	FFA(20:5)	氧化脂质_FF(20:5)	FA	脂防酸类	Eicosanoid	游离脂防酸	C20H38O2	273990	307740	275960	371020	241750	159110	136270	179590	149750	184840	701710	716240	64780	543780	729580
LPID-N-0026	9,10-DiHOME	氧化脂质_9,10-DiHOME	FA	脂防酸类	Eicosanoid	氧化脂质	C18H34O4	9929.8	4695.8	9064.4	9	6105.7	4883.2	9	3055	4371.5	2764	28078	15356	8883.5	26831	12333
LPID-N-0032	15-oxoETE	氧化脂质_15-oxoETE	FA	脂防酸类	Eicosanoid	氧化脂质	C20H38O3	525800	559460	559620	547580	498460	1057900	776860	705620	598040	531710	599580	559070	540730	529880	542400
LPID-N-0034	(9)12-HETE	氧化脂质_(9)12-HETE	FA	脂防酸类	Eicosanoid	氧化脂质	C20H32O3	141160	18459	17881	12235	31307	13152	34335	21451	38109	7184.2	111720	15406	8598.9	71005	46749
LPID-N-0035	(9)15-HETE	氧化脂质_(9)15-HETE	FA	脂防酸类	Eicosanoid	氧化脂质	C20H32O3	8155.6	8645	12891	7872	7350.9	5667.9	4427.7	3269.8	7694.8	3848.2	11909	8396.5	11264	13362	7312.8
LPID-N-0039	(9)5-HETE	氧化脂质_(9)5-HETE	FA	脂防酸类	Eicosanoid	氧化脂质	C20H32O3	4455.4	4466.7	3518.2	3643.3	3657.6	4190.2	9	9	9	3952.9	8411.1	7988.7	3396.2	6894.9	4700.2
LPID-N-0041	11(S)-HETE	氧化脂质_11(S)-HETE	FA	脂防酸类	Eicosanoid	氧化脂质	C20H32O3	21962	38929	37917	23013	33908	13546	18722	12723	23177	15685	52955	27483	23033	54196	25908
LPID-N-0056	PGE2	氧化脂质_PGE2	FA	脂防酸类	Eicosanoid	氧化脂质	C20H32O5	4511.2	4307.6	6745.1	5965.2	6661.3	3137.9	4687.5	2857.6	5456.4	9	11879	6065.6	3422.8	10937	5342.4
LPID-N-0057	PGF2a	氧化脂质_PGF2a	FA	脂防酸类	Eicosanoid	氧化脂质	C20H34O5	5757	7833.6	6083.7	12960	9478.8	5396.6	10324	4935.9	10791	7671.4	16764	11220	10346	17368	12886
LPID-N-0060	PGE1	氧化脂质_PGE1	FA	脂防酸类	Eicosanoid	氧化脂质	C20H34O5	5108.1	5825.5	5843.7	4841	4836.2	9	9	9	3833.2	2906.7	12369	6906.2	2738.7	9067.8	4562.5
LPID-N-0062	TxB3	氧化脂质_TxB3	FA	脂防酸类	Eicosanoid	氧化脂质	C20H32O6	91913	6713.9	9	8853.3	12820	34119	64040	18965	12013	25700	23399	25604	33858	23600	10286
LPID-N-0063	TXB2	氧化脂质_TXB2	FA	脂防酸类	Eicosanoid	氧化脂质	C20H34O6	13987	8674.6	15570	7913.2	10334	3490.8	10929	3046.6	10541	3202.5	27844	8139.5	6817.9	26001	8229.5
LPID-N-0067	FA(10:0)	十烷酸	FA	脂防酸类	FFA	游离脂防酸	C10H20O2	1262300	845110	1518400	1464900	1598400	1109000	1654100	1252000	1442100	1752900	1323500	1863400	1442900	1699100	1867600
LPID-N-0071	FA(14:0)	肉豆蔻酸	FA	脂防酸类	FFA	游离脂防酸	C14H28O2	699100	708420	1094800	1006100	664230	652720	593730	499130	591070	498610	694920	555880	705930	566030	607600
LPID-N-0072	FA(15:0)	十五烷酸	FA	脂防酸类	FFA	游离脂防酸	C15H30O2	402430	307240	678510	393660	382690	417100	395460	281440	631130	424390	639330	700380	929140	661280	787560
LPID-N-0073	FA(16:0)	棕榈酸	FA	脂防酸类	FFA	游离脂防酸	C16H32O2	777600	9017700	10302000	9361200	7967400	6769200	8215200	6329600	8014100	6333000	9536300	9215100	11947000	7271600	10188000
LPID-N-0074	FA(17:0)	十七烷酸	FA	脂防酸类	FFA	游离脂防酸	C17H34O2	237260	208960	455510	343340	347070	410390	495400	233890	572190	302560	866220	761440	937350	647620	747720
LPID-N-0075	FA(18:0)	硬脂酸	FA	脂防酸类	FFA	游离脂防酸	C18H36O2	5770900	5341500	4569000	5523200	5215500	4455600	4930300	4070600	6834900	4010600	6630800	5654600	8101500	6113400	5843000
LPID-N-0076	FA(20:0)	花生酸	FA	脂防酸类	FFA	游离脂防酸	C20H40O2	737690	453810	1171100	521120	268770	583680	557380	320280	417810	565850	632150	683010	707940	724970	513710
LPID-N-0079	FA(24:0)	二十四烷酸	FA	脂防酸类	FFA	游离脂防酸	C24H48O2	22540	204680	366700	179210	177890	225390	145220	104440	222860	207900	287580	320000	256670	285980	232570
LPID-N-0080	FA(14:1)	肉豆蔻酸	FA	脂防酸类	FFA	游离脂防酸	C14H26O2	15310	152980	303700	186040	182920	90078	9	9	66205	9	100550	9	104670	9	9
LPID-N-0082	FA(16:1)	棕榈油酸	FA	脂防酸类	FFA	游离脂防酸	C16H32O2	7963200	8216400	9615400	11766000	8438400	6329900	5279700	4450000	5733600	5371700	6905200	4015400	6641500	6293000	4611300
LPID-N-0083	FA(17:1)	十七烷酸	FA	脂防酸类	FFA	游离脂防酸	C17H32O2	1293100	1498900	1977000	2074200	1485600	1672900	1929400	1344200	2470400	1876100	3071900	1888500	2653300	2322500	2069100
LPID-N-0084	FA(18:1)	油酸	FA	脂防酸类	FFA	游离脂防酸	C18H34O2	2142100	2457000	25785000	31136000	22974000	22049000	20894000	16790000	26263000	20515000	24006000	19459000	28733000	22762000	22724000
LPID-N-0085	FA(19:1)	十九碳一烯酸	FA	脂防酸类	FFA	游离脂防酸	C19H36O2	425410	443680	928450	685280	459160	655930	543820	271890	757800	469600	608130	521540	791140	434200	446880
LPID-N-0086	FA(20:1)	二十碳一烯酸	FA	脂防酸类	FFA	游离脂防酸	C20H38O2	5938800	4367100	6828000	7214300	4841700	6092500	4186700	2589500	4346400	4630300	4304700	2914600	3349000	4502900	3981900
LPID-N-0087	FA(22:1)	芥酸	FA	脂防酸类	FFA	游离脂防酸	C22H42O2	958230	629290	1054600	1003900	567210	693420	526780	326010	544830	851770	631560	566750	437620	443320	461930
LPID-N-0088	FA(24:1)	神经酸	FA	脂防酸类	FFA	游离脂防酸	C24H46O2	199800	289560	710460	304890	252370	205670	238150	105460	227920	235670	151290	131550	84286	145990	149910
LPID-N-0089	FA(16:2)	十六碳二烯酸	FA	脂防酸类	FFA	游离脂防酸	C16H32O2	44428	92393	245770	70756	94507	69423	126980	71043	153610	119910	386480	391100	912150	332460	407960
LPID-N-0090	FA(18:2)	亚油酸	FA	脂防酸类	FFA	游离脂防酸	C18H32O2	9326800	10209000	11946000	9206000	9284200	9647800	10537000	8780200	11859000	10535000	15976000	17388000	18646000	16648000	16899000
LPID-N-0091	FA(20:2)	二十碳二烯酸	FA	脂防酸类	FFA	游离脂防酸	C20H36O2	1845400	1944700	4585600	3218800	2089100	2031000	1702200	1230700	1959500	1667200	2583300	1957600	2104500	2131000	2156100
LPID-N-0092	FA(22:2)	二十二碳二烯酸	FA	脂防酸类	FFA	游离脂防酸	C22H40O2	364030	267180	726680	474040	271900	245060	215750	171300	262530	377920	378920	296420	263440	264660	350180
LPID																						

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-N-0141	LPE(17:0/0)	溶血磷脂酰乙醇胺_LPE(17:0/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C21H44NO7P	99568	473740	431780	443150	302130	306300	231500	285110	234620	426410	973500	1186900	1119900	661610	987270
LIPID-N-0148	LPE(17:1/0:0)	溶血磷脂酰乙醇胺_LPE(17:1/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C21H42NO7P	19696	106440	103240	106050	69798	92880	60130	72669	56688	100820	148250	182880	204330	113640	140920
LIPID-N-0149	LPE(0:0/18:1)	溶血磷脂酰乙醇胺_LPE(0:0/18:1)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H46NO7P	3862400	23259000	17644000	30686000	13785000	14310000	8300000	10625000	8683600	15216000	23393000	27899000	30638000	16237000	22677000
LIPID-N-0150	LPE(18:1/0:0)	溶血磷脂酰乙醇胺_LPE(18:1/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H46NO7P	3761900	23792000	18258000	29877000	13494000	14321000	8239700	10216000	8506900	15152000	23476000	28263000	32393000	17264000	22437000
LIPID-N-0153	LPE(22:1/0:0)	溶血磷脂酰乙醇胺_LPE(22:1/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H54NO7P	7672.4	27342	21203	26055	13971	9374.4	5796.6	7813.7	6499.5	13630	25468	31577	28112	13625	23636
LIPID-N-0157	LPE(18:3/0:0)	溶血磷脂酰乙醇胺_LPE(18:3/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H42NO7P	40289	117810	133380	127240	75047	73752	63990	63258	80677	78433	175420	228800	332410	135880	221880
LIPID-N-0159	LPE(20:3/0:0)	溶血磷脂酰乙醇胺_LPE(20:3/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H46NO7P	502380	674020	593380	928810	447710	695530	556310	427910	711040	597980	604790	1049600	1251500	605930	848380
LIPID-N-0161	LPE(20:4/0:0)	溶血磷脂酰乙醇胺_LPE(20:4/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H44NO7P	6252900	12262000	10726000	16015000	8692700	13722000	11596000	8729400	15223000	12777000	16057000	18532000	24559000	15535000	15999000
LIPID-N-0164	LPE(22:5/0:0)	溶血磷脂酰乙醇胺_LPE(22:5/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H46NO7P	294660	509690	1302300	446470	341050	544280	472430	328930	596920	533060	415700	523910	477360	350330	416190
LIPID-N-0165	LPE(22:6/0:0)	溶血磷脂酰乙醇胺_LPE(22:6/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H44NO7P	3031000	7454500	6465200	8195000	5046200	5304300	5587000	3453400	7037000	5353600	10363000	12188000	14885000	8874900	11063000
LIPID-N-0167	LPG(18:0/0:0)	溶血磷脂酰甘油_LPG(18:0/0:0)	GP	甘油磷脂类	LPG	溶血磷脂酰甘油	C24H49O9P	37011	412430	137290	392610	192460	115030	51139	70948	40813	102100	254750	272640	288010	163130	222840
LIPID-N-0169	LPG(16:1/0:0)	溶血磷脂酰甘油_LPG(16:1/0:0)	GP	甘油磷脂类	LPG	溶血磷脂酰甘油	C22H43O9P	44249	184550	90597	215170	111830	82563	59770	56235	52948	86830	74048	77971	70124	51356	64010
LIPID-N-0170	LPG(18:1/0:0)	溶血磷脂酰甘油_LPG(18:1/0:0)	GP	甘油磷脂类	LPG	溶血磷脂酰甘油	C24H47O9P	519560	769950	793120	843720	533010	1114800	986960	578730	1014500	918230	452460	604210	761540	447540	450870
LIPID-N-0172	LPG(20:4/0:0)	溶血磷脂酰甘油_LPG(20:4/0:0)	GP	甘油磷脂类	LPG	溶血磷脂酰甘油	C26H45O9P	21464	75394	84252	135480	60756	68964	85630	40280	97321	63685	100850	114210	138190	93460	90931
LIPID-N-0173	LPG(22:5/0:0)	溶血磷脂酰甘油_LPG(22:5/0:0)	GP	甘油磷脂类	LPG	溶血磷脂酰甘油	C28H47O9P	4138.1	10924	28427	12477	7280.5	10174	12797	7484.8	23487	8684.7	11325	10187	16359	8681.1	8084.4
LIPID-N-0175	LPI(16:0/0:0)	溶血磷脂酰肌醇_LPI(16:0/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C25H49O12P	263940	282020	920090	305400	118110	284660	159540	227180	333640	298370	878970	836960	1238500	642390	908490
LIPID-N-0176	LPI(18:0/0:0)	溶血磷脂酰肌醇_LPI(18:0/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C27H53O12P	3534300	5499500	6655300	7864000	3436600	4393500	3194200	5170200	6116200	5707400	8734900	10674000	944000	703700	856580
LIPID-N-0178	LPI(18:1/0:0)	溶血磷脂酰肌醇_LPI(18:1/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C27H51O12P	297870	358920	657870	510390	191090	367550	182960	196620	244500	333150	353980	732230	440750	401430	449140
LIPID-N-0179	LPI(18:2/0:0)	溶血磷脂酰肌醇_LPI(18:2/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C27H49O12P	21254	23684	51275	29140	10314	23159	14705	15292	38930	30685	116670	139530	186230	99036	137110
LIPID-N-0180	LPI(20:3/0:0)	溶血磷脂酰肌醇_LPI(20:3/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C29H51O12P	121660	174200	248710	361640	92440	152660	91721	96797	197010	157040	165030	292790	412780	145680	220770
LIPID-N-0181	LPI(20:4/0:0)	溶血磷脂酰肌醇_LPI(20:4/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C29H49O12P	236200	427400	570880	546530	232910	463580	346830	365270	562060	584700	1078000	1181800	1153900	796930	764200
LIPID-N-0182	LPI(22:4/0:0)	溶血磷脂酰肌醇_LPI(22:4/0:0)	GP	甘油磷脂类	LPI	溶血磷脂酰肌醇	C31H53O12P	5178.5	7698.3	7013	11537	2120.4	6898	4211.2	5325.7	7033.2	7919.6	15241	11788	15116	6632.6	12024
LIPID-N-0187	LPS(18:0/0:0)	溶血磷脂酰丝氨酸_LPS(18:0/0:0)	GP	甘油磷脂类	LPS	溶血磷脂酰丝氨酸	C24H48NO9P	89996	531340	245300	513810	238540	223520	155980	235840	257490	258000	577270	505170	509780	543900	420870
LIPID-N-0189	LPS(18:2/0:0)	溶血磷脂酰丝氨酸_LPS(18:2/0:0)	GP	甘油磷脂类	LPS	溶血磷脂酰丝氨酸	C24H44NO9P	3830.5	8637.2	24815	9023.9	5072.6	9217.6	7629.5	9	7603.5	7394.1	21009	24407	35884	24604	17700
LIPID-N-0204	PC(18:0_12:0)	磷脂酰胆碱_PC(18:0_12:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C38H76NO8P	5338	64336	78040	74959	66125	68648	54011	53686	37323	53083	50564	64120	54847	58658	41289
LIPID-N-0206	PC(16:0_16:0)	磷脂酰胆碱_PC(16:0_16:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C40H80NO8P	6213600	8191300	14387000	1734400	8463600	7386000	8446100	7582600	7975000	6929000	10796000	8027000	8143800	10874000	8128900
LIPID-N-0217	PC(14:0_18:1)	磷脂酰胆碱_PC(14:0_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C40H78NO8P	475990	413620	369840	521550	417680	482820	356160	471990	387170	490660	360490	397970	341860	360160	334020
LIPID-N-0221	PC(16:0_20:1)	磷脂酰胆碱_PC(16:0_20:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H86NO8P	229200	239960	264150	265750	238830	231410	197070	181540	199250	167790	180830	148230	150240	154470	142660
LIPID-N-0222	PC(19:0_18:1)	磷脂酰胆碱_PC(19:0_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H88NO8P	17915	17782	23920	24819	24284	20401	19069	22746	19864	23519	16277	17234	18353	15370	16218
LIPID-N-0228	PC(16:1_16:1)	磷脂酰胆碱_PC(16:1_16:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C40H76NO8P	92250	593560	580640	782460	388040	272460	374340	295490	338520	204820	123800	202710	120330	141340	
LIPID-N-0231	PC(16:1_18:1)	磷脂酰胆碱_PC(16:1_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H80NO8P	386660	3268900	2694700	4221300	3908400	3437400	2432700	2970600	2374700	2854900	1414300	1120700	1777200	1463400	1236900
LIPID-N-0234	PC(17:0_18:2)	磷脂酰胆碱_PC(17:0_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C43H82NO8P	896850	1038600	1288000	904100	1084700	1152500	1403000	1207700	1109200	1097300	1562900	1897500	1822900	1767100	1844000
LIPID-N-0235	PC(18:1_18:1)	磷脂酰胆碱_PC(18:1_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H84NO8P	7796200	9742700	7344300	14904000	10515000	9678000	7744700	8076800	6594900	7455600	3664000	3785200	3892800	3676900	3391300
LIPID-N-0239	PC(18:1_20:1)	磷脂酰胆碱_PC(18:1_20:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H88NO8P	356790	258880	242260	553530	237460	286300	221750	244280	20440	200820	81198	99063	80645	89176	90437
LIPID-N-0240	PC(18:2_20:0)	磷脂酰胆碱_PC(18:2_20:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H88NO8P	118930	62616	43898	61080	70411	61399	60038	64303	63065	61768	293290	119350	82591	290560	92274
LIPID-N-0245	PC(14:1_18:2)	磷脂酰胆碱_PC(14:1_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C40H74NO8P	351930	916310	1383300	734940	849690	1399100	1250500	601910	1366500	926380	855180	1237800	1853500	979310	982910
LIPID-N-0250	PC(16:1_18:2)	磷脂酰胆碱_PC(16:1_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H78NO8P	226500	1891900	2710400	1889400	2401500	2546400	2204000	2938100	2853400	2423500	2469400	2672800	3930500	2296900	2887700
LIPID-N-0254	PC(18:1_18:2)	磷脂酰胆碱_PC(18:1_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H82NO8P	726800	7989200	6249000	753800	7336800	6704400	6853500	7661100	7834400	7371000	6982200	6790000	9218000	7452700	7703100
LIPID-N-0257	PC(19:1_18:2)	磷脂酰胆碱_PC(19:1_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H84NO8P	318130	333490	285980	344660	413640	335190	458420	327230	413680	251420	320450	342270	445530	315500	332060
LIPID-N-0259	PC(20:1_18:2)	磷脂酰胆碱_PC(20:1_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H86NO8P	577610	299980	256260	436020	350040	471950	386900	376990	352900	329710	223950	256400	249360	252790	305300
LIPID-N-0260	PC(20:2_18:1)	磷脂酰胆碱_PC(20:2_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H86NO8P	226750	242920	141010	332810	222240	214730	177470	171010	169950	144500	83373	105780	93720	88234	82249
LIPID-N-0263	PC(20:0_20:3)	磷脂酰胆碱_PC(20:0_20:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H90NO8P	32536	18346	7813.4	28578	17220	21291	9289.4	17646	12121	16198	25557	18995	10965	28876	17777
LIPID-N-0266	PC(16:1_18:3)	磷脂酰胆碱_PC(16:1_18:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H76NO8P	35025	57800	83364	41312	58780	21916	31792	52820	35786	45561	36276	47366	49263	42914	46498
LIPID-N-0267	PC(16:2_18:2)	磷脂酰胆碱_PC(16:2_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H76NO8P	36024	50452	64425	25001	44835	61482	84700	64485	80833	67442	80862	88383	158600	110520	109530
LIPID-N-0270	PC(18:2_18:2)	磷脂酰胆碱_PC(18:2_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H80NO8P	3002800	1809500	1582700	1542100	1938700	1624300	2448100	1746200	2809200	1821900	2901800	4251400	4814400	2845700	3741700
LIPID-N-0271	PC(18:3_18:1)	磷脂酰胆碱_PC(18:3_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H80NO8P	162710	231540	202800	238600	190950	171690	187540	215760	192710	157260	142150	135510	192200	154620	158660
LIPID-N-0274	PC(20:3_18:1)																					

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HFD1	HFD2	HFD3	HFD4	HFD5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-N-0335	PE(16:1, 18:0)	磷脂酰乙醇胺 PE(16:1, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H76NO8P	63434	70668	76668	61125	68783	58143	46198	66835	50408	58047	38658	30855	33916	49557	32981
LIPID-N-0337	PE(20:1, 16:0)	磷脂酰乙醇胺 PE(20:1, 16:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H80NO8P	100020	108340	180340	170430	88505	134370	96854	119780	123110	104270	84357	106830	98733	95029	100310
LIPID-N-0338	PE(18:1, 18:0)	磷脂酰乙醇胺 PE(18:1, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H80NO8P	124700	1700500	3494800	2138800	1343400	1503300	1209900	1505600	1474000	1466800	1224900	1365700	1466200	1128300	1362600
LIPID-N-0339	PE(20:1, 18:0)	磷脂酰乙醇胺 PE(20:1, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H84NO8P	514670	58532	88562	137870	48999	86400	81562	84532	110130	84945	63992	90482	83086	65672	76583
LIPID-N-0340	PE(20:0, 18:1)	磷脂酰乙醇胺 PE(20:0, 18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H84NO8P	10708	86324	32913	26728	69795	11554	15019	90989	91689	11972	92208	16317	14391	11541	16904
LIPID-N-0345	PE(24:0, 18:1)	磷脂酰乙醇胺 PE(24:0, 18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C47H92NO8P	9	2821	15511	9	9	9	3673	9	2786	9	2908	1	42587	31764	9
LIPID-N-0347	PE(16:1, 16:1)	磷脂酰乙醇胺 PE(16:1, 16:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C37H70NO8P	84578	55804	116720	62663	83537	50581	37930	54015	34932	39640	17007	25276	17796	24818	12533
LIPID-N-0350	PE(18:2, 16:0)	磷脂酰乙醇胺 PE(18:2, 16:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H74NO8P	12195000	12131000	20569000	11028000	12314000	13546000	10894000	13903000	13456000	14723000	22530000	22948000	23115000	18616000	229010000
LIPID-N-0352	PE(18:1, 18:1)	磷脂酰乙醇胺 PE(18:1, 18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H78NO8P	2656000	3755900	9068600	4898600	3448200	3445100	2689100	3082400	2944100	2858000	2075300	2534900	2836800	2025400	2347700
LIPID-N-0353	PE(18:0, 18:2)	磷脂酰乙醇胺 PE(18:0, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H78NO8P	6057600	5694600	7068400	5664900	4667400	5234800	5264600	6912300	6181100	6424200	9039400	13894000	11696000	9866400	12788000
LIPID-N-0354	PE(20:2, 16:0)	磷脂酰乙醇胺 PE(20:2, 16:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H78NO8P	122190	104420	352970	141160	105740	174850	137440	148880	177180	150040	215750	285810	235470	199280	241070
LIPID-N-0355	PE(19:0, 18:2)	磷脂酰乙醇胺 PE(19:0, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H80NO8P	32530	15290	73665	18792	27396	23927	34318	31067	42335	42671	80551	117260	95246	80282	106180
LIPID-N-0356	PE(20:2, 18:0)	磷脂酰乙醇胺 PE(20:2, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H82NO8P	25220	23212	80429	46918	21741	42609	47425	51770	60667	41873	63715	91689	78607	52285	70341
LIPID-N-0357	PE(20:0, 18:2)	磷脂酰乙醇胺 PE(20:0, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H82NO8P	45836	18696	29446	25955	19422	19110	13058	19102	18324	19884	36241	71091	53969	40638	64190
LIPID-N-0358	PE(20:1, 18:1)	磷脂酰乙醇胺 PE(20:1, 18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H82NO8P	274630	222660	386110	510800	216400	302790	250590	245740	316410	240980	147130	214230	207110	169780	166330
LIPID-N-0361	PE(20:1, 20:1)	磷脂酰乙醇胺 PE(20:1, 20:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H86NO8P	69819	49451	12841	18006	9	81468	9	7022	74333	48112	9	9	4570	9	54836
LIPID-N-0362	PE(18:1, 22:1)	磷脂酰乙醇胺 PE(18:1, 22:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H86NO8P	28595	47086	45310	41740	31548	31976	28895	29163	31482	36196	26107	30940	35731	27985	26430
LIPID-N-0365	PE(18:3, 16:0)	磷脂酰乙醇胺 PE(18:3, 16:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H72NO8P	249650	41000	710190	322900	489900	430660	433580	528570	529870	551590	512310	744260	800030	691190	676840
LIPID-N-0366	PE(16:1, 18:2)	磷脂酰乙醇胺 PE(16:1, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H72NO8P	1045700	903710	1210000	607780	754940	666530	633520	729030	785860	743640	928520	970570	1073300	1042500	1061800
LIPID-N-0367	PE(17:1, 18:2)	磷脂酰乙醇胺 PE(17:1, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C40H74NO8P	180560	248350	317860	149370	127290	122670	105260	131050	108050	414060	362980	485050	281980	241850	
LIPID-N-0368	PE(18:1, 18:2)	磷脂酰乙醇胺 PE(18:1, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H76NO8P	1398500	1072700	1247000	1080800	1081100	983900	905700	1139900	1108800	999680	1345400	1833200	1799800	1217800	1538000
LIPID-N-0369	PE(16:0, 20:3)	磷脂酰乙醇胺 PE(16:0, 20:3)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H76NO8P	934710	703270	750240	173510	717630	787310	539490	733610	455760	732300	647430	826260	623820	694110	715940
LIPID-N-0371	PE(17:0, 20:3)	磷脂酰乙醇胺 PE(17:0, 20:3)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H78NO8P	25502	32971	38387	29317	52871	66875	45520	46530	44977	53420	76545	66420	51678	78646	86813
LIPID-N-0372	PE(20:3, 18:0)	磷脂酰乙醇胺 PE(20:3, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H80NO8P	712750	775470	1088400	709750	886660	675370	1065600	774960	778080	775250	1182800	990530	810020	1138400	
LIPID-N-0373	PE(20:1, 18:2)	磷脂酰乙醇胺 PE(20:1, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H80NO8P	270590	177470	253750	258780	180830	206670	167970	210350	193920	196460	191430	302030	270280	193900	286280
LIPID-N-0381	PE(18:3, 16:1)	磷脂酰乙醇胺 PE(18:3, 16:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H70NO8P	21583	23671	45983	13535	15301	22957	20401	24087	18400	23303	22294	26425	28675	29682	23256
LIPID-N-0382	PE(18:2, 18:2)	磷脂酰乙醇胺 PE(18:2, 18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H74NO8P	1136000	698740	848200	554960	764150	772830	1137400	1057000	1227300	932220	2398400	3388100	4085800	2233000	3026500
LIPID-N-0383	PE(16:0, 20:4)	磷脂酰乙醇胺 PE(16:0, 20:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H74NO8P	54523000	56929000	61674000	49592000	66208000	58049000	47533000	53815000	52785000	54394000	63145000	49477000	55132000	64771000	52199000
LIPID-N-0384	PE(18:3, 18:1)	磷脂酰乙醇胺 PE(18:3, 18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H74NO8P	283190	316660	397420	250130	314260	273080	314440	310520	307390	275250	323160	350160	457380	352490	401270
LIPID-N-0386	PE(17:0, 20:4)	磷脂酰乙醇胺 PE(17:0, 20:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H76NO8P	885920	804260	1177900	838900	1087900	1052700	1201300	1395400	1409800	1380700	2207400	1894100	1706600	2063100	1778500
LIPID-N-0387	PE(20:4, 18:0)	磷脂酰乙醇胺 PE(20:4, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H78NO8P	2354400	3377900	18456000	30142000	28347000	28504000	27202000	32851000	34866000	29822000	40224000	37148000	39234000	34865000	34189000
LIPID-N-0388	PE(18:1, 20:3)	磷脂酰乙醇胺 PE(18:1, 20:3)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H78NO8P	2711600	2245500	1510300	3106100	2163800	2527400	1729300	2114200	1784000	2042500	1403800	2354000	1811600	1675600	2018000
LIPID-N-0389	PE(16:0, 22:4)	磷脂酰乙醇胺 PE(16:0, 22:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H78NO8P	860890	1272900	2259900	967530	1177400	1470600	1072900	1368000	1391500	1511400	1474400	1121000	1120100	1328100	1426900
LIPID-N-0392	PE(18:0, 22:4)	磷脂酰乙醇胺 PE(18:0, 22:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H82NO8P	404390	457350	1115400	513800	442810	543030	487100	716310	656480	705980	1081100	803240	827170	961660	827070
LIPID-N-0394	PE(20:4, 20:0)	磷脂酰乙醇胺 PE(20:4, 20:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H82NO8P	94515	62345	28216	68427	53719	57494	38812	67829	50446	64700	74623	103280	96790	80807	97194
LIPID-N-0397	PE(16:0, 20:5)	磷脂酰乙醇胺 PE(16:0, 20:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H72NO8P	532030	353480	239420	272210	328320	204600	194800	291710	256340	261420	356340	356620	325110	358120	369770
LIPID-N-0399	PE(18:1, 20:4)	磷脂酰乙醇胺 PE(18:1, 20:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H76NO8P	2908300	347800	3499100	299100	4435500	3319600	3352200	3264100	3750500	3241300	3025400	2933200	3351300	3086700	3290700
LIPID-N-0400	PE(18:0, 20:5)	磷脂酰乙醇胺 PE(18:0, 20:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H76NO8P	559680	530400	240000	608510	466520	278390	292400	451950	417910	318840	500960	555640	489170	497270	502230
LIPID-N-0401	PE(16:0, 22:5)	磷脂酰乙醇胺 PE(16:0, 22:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H76NO8P	1957700	2902700	1963300	3073700	3263700	2765500	3305300	3764400	3610200	1859600	2297400	1829800	2378500	1744200	
LIPID-N-0409	PE(20:5, 16:1)	磷脂酰乙醇胺 PE(20:5, 16:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H70NO8P	29673	24755	16973	89091	23824	11615	77587	10684	96824	60426	12069	78826	84908	54014	11748
LIPID-N-0413	PE(22:6, 16:0)	磷脂酰乙醇胺 PE(22:6, 16:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H74NO8P	33514000	50710000	48540000	47115000	61256000	44870000	59155000	50319000	40504000	55415000	61455000	53619000	55167000	60627000	50728000
LIPID-N-0415	PE(22:6, 18:0)	磷脂酰乙醇胺 PE(22:6, 18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H78NO8P	14579000	20587000	20464000	24100000	23292000	23439000	20633000	25039000	25820000	25733000	26202000	34058000	26198000	29680000	31501000
LIPID-N-0417	PE(18:1, 22:5)	磷脂酰乙醇胺 PE(18:1, 22:5																				

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1D1	HF1D2	HF1D3	HF1D4	HF1D5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5	
LIPID-N-0463	PG(18:1, 22:5)	磷脂酰甘油_PG(18:1, 22:5)	GP	甘油磷脂类	PG	磷脂酰甘油	C46H79O10P	123610	274860	959810	236410	286960	344700	294730	172500	309780	272750	965890	892220	126270	106680	76280	
LIPID-N-0464	PG(16:1, 22:6)	磷脂酰甘油_PG(16:1, 22:6)	GP	甘油磷脂类	PG	磷脂酰甘油	C44H73O10P	83490	174720	222530	248100	156630	114800	95506	37663	69899	141230	39856	38359	81758	37246	53520	
LIPID-N-0465	PG(18:1, 22:6)	磷脂酰甘油_PG(18:1, 22:6)	GP	甘油磷脂类	PG	磷脂酰甘油	C46H77O10P	40897	115380	140450	207740	854230	108770	957710	378790	92900	547570	347230	521290	738570	385430	44390	
LIPID-N-0466	PG(18:2, 22:6)	磷脂酰甘油_PG(18:2, 22:6)	GP	甘油磷脂类	PG	磷脂酰甘油	C46H75O10P	80374	191400	345030	224100	179380	203700	272660	111010	253450	174960	216870	355130	537660	217360	337620	
LIPID-N-0467	PG(20:2, 22:6)	磷脂酰甘油_PG(20:2, 22:6)	GP	甘油磷脂类	PG	磷脂酰甘油	C48H79O10P	67708	132980	188760	195130	135550	121400	98783	49987	79259	65992	32979	51304	56610	25050	33076	
LIPID-N-0468	PG(20:3, 22:6)	磷脂酰甘油_PG(20:3, 22:6)	GP	甘油磷脂类	PG	磷脂酰甘油	C48H77O10P	26167	64672	125310	86529	51091	61625	54678	22716	50316	42150	19436	37296	36770	29146	28021	
LIPID-N-0469	PI(16:0, 18:0)	磷脂酰肌醇_PI(16:0, 18:0)	GP	甘油磷脂类	PI	磷脂酰肌醇	C43H83O13P	10575	38520	15488	30026	23078	11344	8588.4	13495	19175	11304	46791	26958	30374	35581	14987	
LIPID-N-0474	PI(15:0, 16:1)	磷脂酰肌醇_PI(15:0, 16:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C40H75O13P	46681	70979	334310	58963	67965	81738	64559	30464	61054	54606	14005	15658	20891	15930	7923.7	
LIPID-N-0475	PI(16:0, 16:1)	磷脂酰肌醇_PI(16:0, 16:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C41H77O13P	39635	90415	175400	111050	101410	78842	73679	94160	155420	86693	170250	132000	164170	184290	139410	
LIPID-N-0477	PI(16:0, 18:1)	磷脂酰肌醇_PI(16:0, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C43H81O13P	81235	111890	463090	150070	130780	155300	134240	160930	173900	175730	155370	231020	197480	181560	219890	
LIPID-N-0480	PI(17:0, 18:1)	磷脂酰肌醇_PI(17:0, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C44H83O13P	341470	394340	243640	379670	285230	362640	276760	334390	469600	415050	316460	330120	292860	303890	351950	
LIPID-N-0482	PI(18:0, 18:1)	磷脂酰肌醇_PI(18:0, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H85O13P	111580	71905	171230	128490	70780	120570	84738	104690	106870	84217	88476	145990	105820	84459	89975	
LIPID-N-0490	PI(18:2, 16:0)	磷脂酰肌醇_PI(18:2, 16:0)	GP	甘油磷脂类	PI	磷脂酰肌醇	C43H79O13P	85695	81148	251890	63443	50904	109130	154880	151830	258400	211850	562240	779510	733370	559780	626440	
LIPID-N-0491	PI(16:1, 18:1)	磷脂酰肌醇_PI(16:1, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C43H79O13P	17469	32118	50010	43825	24909	30364	23786	26946	22550	28283	22684	26062	24291	40563	25276	
LIPID-N-0493	PI(17:1, 18:1)	磷脂酰肌醇_PI(17:1, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C44H81O13P	80290	58373	68419	72370	104800	89569	99968	111480	107150	91003	67865	81638	126090	81362	82374	
LIPID-N-0494	PI(17:0, 18:2)	磷脂酰肌醇_PI(17:0, 18:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C44H81O13P	37530	22752	42480	36263	29667	60208	57745	35487	90787	54178	162750	198270	218210	123100	116640	
LIPID-N-0495	PI(18:0, 18:2)	磷脂酰肌醇_PI(18:0, 18:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H83O13P	427760	297540	913220	342310	216150	384980	423670	603480	806370	612890	1237600	1929700	2353700	1069900	1431500	
LIPID-N-0496	PI(18:1, 18:1)	磷脂酰肌醇_PI(18:1, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H83O13P	180550	252530	507100	320180	223590	199640	104240	267500	229150	316300	337360	271830	276370	346150	346150	
LIPID-N-0499	PI(18:0, 19:2)	磷脂酰肌醇_PI(18:0, 19:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C46H85O13P	75355	95391	97899	93925	98499	65242	125190	109920	126810	137260	167520	205100	210470	199170	205570	
LIPID-N-0502	PI(18:0, 20:2)	磷脂酰肌醇_PI(18:0, 20:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H87O13P	49283	105370	149650	199710	95345	78739	61428	82290	129430	87748	37608	40622	31555	42372	38445	
LIPID-N-0504	PI(18:0, 22:2)	磷脂酰肌醇_PI(18:0, 22:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H91O13P	16119	21669	19112	26389	18696	19513	19504	21958	18094	25241	17743	27651	27206	19404	23560	
LIPID-N-0508	PI(18:1, 18:2)	磷脂酰肌醇_PI(18:1, 18:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H81O13P	181660	152110	323490	162580	135610	150200	181710	237520	258030	229270	637020	744530	736480	57560	591400	
LIPID-N-0509	PI(16:0, 20:3)	磷脂酰肌醇_PI(16:0, 20:3)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H81O13P	83840	70965	214090	80822	64694	43441	22787	58613	67483	75809	30447	9	33376	33561	9	
LIPID-N-0511	PI(17:0, 20:3)	磷脂酰肌醇_PI(17:0, 20:3)	GP	甘油磷脂类	PI	磷脂酰肌醇	C46H83O13P	66342	11362	37060	10440	12034	8872.6	11364	22648	25866	12041	15527	13591	23998	20243	17057	
LIPID-N-0512	PI(18:1, 19:2)	磷脂酰肌醇_PI(18:1, 19:2)	GP	甘油磷脂类	PI	磷脂酰肌醇	C46H83O13P	72994	65826	61530	80761	70355	87899	68463	110590	86693	110070	136750	148960	200290	118770	133990	
LIPID-N-0514	PI(20:3, 18:0)	磷脂酰肌醇_PI(20:3, 18:0)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H85O13P	630460	434300	544580	975940	332890	694190	439480	800170	969550	856880	743270	1159900	1075700	70000	110660	
LIPID-N-0520	PI(15:0, 20:4)	磷脂酰肌醇_PI(15:0, 20:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C44H77O13P	5896.1	9	66895	8576.1	14888	14468	13132	9108.6	8043.3	23611	7525.9	8063.8	6678.8	5907.7	4825.8	
LIPID-N-0522	PI(16:0, 20:4)	磷脂酰肌醇_PI(16:0, 20:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H79O13P	448500	392770	1149300	433650	303080	468270	397860	633270	881460	715490	1340500	1447700	1204400	1403800	1408100	
LIPID-N-0523	PI(17:0, 20:4)	磷脂酰肌醇_PI(17:0, 20:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C46H81O13P	62923	55584	226710	57702	62909	107360	75462	160720	203730	130420	393380	376590	331280	339840	396020	
LIPID-N-0524	PI(18:0, 20:4)	磷脂酰肌醇_PI(18:0, 20:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H83O13P	7345900	1165700	1025300	1261100	855470	1263100	1097200	1889800	2100400	1419000	2527200	2638400	2743300	2562000	2591500	
LIPID-N-0525	PI(20:3, 18:1)	磷脂酰肌醇_PI(20:3, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H83O13P	220570	234620	405940	309190	130920	201230	131280	159480	181960	184890	150440	209880	141100	128110	176870	
LIPID-N-0529	PI(18:0, 22:4)	磷脂酰肌醇_PI(18:0, 22:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H87O13P	41238	65466	70469	101270	59383	80448	51628	94411	107610	64316	93642	79907	103040	92875		
LIPID-N-0532	PI(18:2, 18:3)	磷脂酰肌醇_PI(18:2, 18:3)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H77O13P	46866	28191	26673	31067	40490	32538	26486	33762	47014	48994	92096	93109	76493	83920	77319	
LIPID-N-0533	PI(20:4, 16:1)	磷脂酰肌醇_PI(20:4, 16:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C45H77O13P	28952	29994	16404	25216	29998	21316	23216	29054	30451	27202	40776	34562	43675	31446	35782	
LIPID-N-0538	PI(20:4, 18:1)	磷脂酰肌醇_PI(20:4, 18:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H81O13P	615990	772740	1162300	907230	635390	792220	548970	958540	1051900	965870	1522400	1441800	1378300	1501000	1422000	
LIPID-N-0539	PI(18:0, 20:5)	磷脂酰肌醇_PI(18:0, 20:5)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H81O13P	16065	22152	13325	18437	10317	9593.3	9588.8	14786	22897	17733	18067	22905	11436	14760	24369	
LIPID-N-0541	PI(18:1, 22:4)	磷脂酰肌醇_PI(18:1, 22:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H85O13P	116783	4414	23181	5911.3	2172	7714.4	5391	11921	11664	12794	17191	6652.7	14460	17387	11690	
LIPID-N-0543	PI(20:4, 20:1)	磷脂酰肌醇_PI(20:4, 20:1)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H85O13P	42244	29113	38032	58479	22474	31039	29807	36447	43898	29824	27880	29128	40227	35582	32997	
LIPID-N-0544	PI(18:0, 22:5)	磷脂酰肌醇_PI(18:0, 22:5)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H85O13P	15108	32945	19040	31599	27101	19716	16991	44535	37411	33859	99946	112290	83843	89727	80156	
LIPID-N-0547	PI(18:2, 20:4)	磷脂酰肌醇_PI(18:2, 20:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H79O13P	66858	45198	90148	54052	37054	53802	46932	69529	87413	56609	146420	121870	137440	118910	115990	
LIPID-N-0548	PI(16:0, 22:6)	磷脂酰肌醇_PI(16:0, 22:6)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H79O13P	13250	21664	17101	9566.8	11503	7704.5	5090.6	5764	15800	15810	25350	39941	37719	27551	31737	
LIPID-N-0549	PI(18:1, 20:5)	磷脂酰肌醇_PI(18:1, 20:5)	GP	甘油磷脂类	PI	磷脂酰肌醇	C47H79O13P	13078	18715	25777	19467	21752	21666	11132	14426	12840	20195	10149	18931	24438	13270	9929.8	
LIPID-N-0550	PI(17:0, 22:6)	磷脂酰肌醇_PI(17:0, 22:6)	GP	甘油磷脂类	PI	磷脂酰肌醇	C48H81O13P	4448	10373	19360	14137	9672.8	20163	6163	25294	12654	18568	24548	50539	49804	58808	31968	34153
LIPID-N-0551	PI(18:0, 22:6)	磷脂酰肌醇_PI(18:0, 22:6)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H83O13P	69977	81396	49663	77716	67417	53688	71551	78167	112020	83122	153520	152020	147110	131980	126260	
LIPID-N-0556	PI(18:1, 22:6)	磷脂酰肌醇_PI(18:1, 22:6)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H81O13P	42910	55500	85042	53157	46412	75728	55864	36129	72651	59979	80461	90309	109730	88580	90458	
LIPID-N-0557	PI(20:4, 20:4)	磷脂酰肌醇_PI(20:4, 20:4)	GP	甘油磷脂类	PI	磷脂酰肌醇	C49H79O13P	30347	29351	33475	16541	17469	29583	15518	22803	17418	25204	38729	41437	12469	26946	30751	
LIPID-N-0563	PS(18:0, 18:0)	磷脂酰丝氨酸_PS(18:0, 18:0)	GP	甘油磷脂类	PS	磷脂酰丝氨酸	C42H82NO10P	16672000	2276900	2034500	2685600	2385000	2594700	2200300	2677500	2543000	3044600	2763400	3372500	2811500	2954200	2726000	
LIPID-N-0566	PS(17:0, 16:1)	磷脂酰丝氨酸_PS(17:0, 16:1)	GP	甘油磷脂类	PS	磷脂酰丝氨酸	C																

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-N-0620	LPA(0;0;22;6)	沿血脂脂酸_LPA(0;0;22;6)	GP	甘油脂类	LPA	沿血脂脂酸	C25H59O7P	6243.1	21025	21923	21392	12711	25179	32350	6993.4	44575	15443	61984	50893	73777	38317	43392
LIPID-N-0623	PA(16;0_16;0)	磷脂酸_PA(16;0_16;0)	GP	甘油脂类	PA	磷脂酸	C35H69O8P	14197	10043	42545	15581	13494	15431	10380	19041	21725	13717	32780	22760	15443	25996	16736
LIPID-N-0624	PA(16;0_18;0)	磷脂酸_PA(16;0_18;0)	GP	甘油脂类	PA	磷脂酸	C37H73O8P	9	5591.2	10283	4841.8	6171.1	9	9	5854.3	9	4103.7	11695	6503.2	5992.2	15439	4300.2
LIPID-N-0630	PA(16;0_18;1)	磷脂酸_PA(16;0_18;1)	GP	甘油脂类	PA	磷脂酸	C37H71O8P	32381	27286	45046	37720	24707	39110	29279	31411	42788	24057	24463	24213	31179	20999	21987
LIPID-N-0631	PA(18;0_18;1)	磷脂酸_PA(18;0_18;1)	GP	甘油脂类	PA	磷脂酸	C39H75O8P	19562	16531	8916.8	24829	19062	17813	17789	13411	12041	15516	9374.1	7245.6	8874.6	4439.6	8226.5
LIPID-N-0633	PA(16;0_18;2)	磷脂酸_PA(16;0_18;2)	GP	甘油脂类	PA	磷脂酸	C37H69O8P	14434	9764.5	17018	15750	7208.5	16802	10618	9717.2	27170	27120	23053	39503	17819	29677	25185
LIPID-N-0635	PA(18;1_18;1)	磷脂酸_PA(18;1_18;1)	GP	甘油脂类	PA	磷脂酸	C39H73O8P	233810	260570	364070	420420	225560	341950	250200	225630	216780	248930	155780	129050	216150	110910	156900
LIPID-N-0639	PA(18;2_18;2)	磷脂酸_PA(18;2_18;2)	GP	甘油脂类	PA	磷脂酸	C39H69O8P	33974	13203	23996	14084	9910.8	11190	28892	33609	33796	26132	55373	58483	58574	45501	45704
LIPID-N-0640	PA(18;0_20;4)	磷脂酸_PA(18;0_20;4)	GP	甘油脂类	PA	磷脂酸	C41H73O8P	35470	125440	79823	124400	147050	123530	69526	155710	260520	67977	168420	128060	182270	152860	102100
LIPID-N-0641	PA(20;4_16;1)	磷脂酸_PA(20;4_16;1)	GP	甘油脂类	PA	磷脂酸	C39H67O8P	12061	10902	5334	5431.1	9	21084	8871.4	15874	6052.9	7510.4	9552.3	10251	4820.2	8935.5	6738.6
LIPID-N-0643	PA(16;1_22;4)	磷脂酸_PA(16;1_22;4)	GP	甘油脂类	PA	磷脂酸	C41H71O8P	148980	216190	209160	155720	149150	200570	148180	199230	196010	284330	184920	156380	115860	20620	167220
LIPID-N-0647	PA(18;0_22;6)	磷脂酸_PA(18;0_22;6)	GP	甘油脂类	PA	磷脂酸	C43H73O8P	29896	41917	83253	45113	56334	40038	28701	32959	43553	40043	52372	32964	35605	58708	45475
LIPID-N-0650	PA(18;1_22;6)	磷脂酸_PA(18;1_22;6)	GP	甘油脂类	PA	磷脂酸	C43H71O8P	657970	1563100	1668400	1241200	980890	1244500	1008200	349960	819730	661210	214980	203210	420120	218980	195150
LIPID-P-0001	DL-Carnitine	DL-肉碱	FA	脂肪酰类	CAR	酰基肉碱	C7H15NO3	1873800	3352000	3497300	3381700	3428900	3438100	2907900	2529400	2558200	2772700	2408200	2638700	2274600	1935200	2224700
LIPID-P-0002	Carnitine C2:0	O-乙酰肉碱	FA	脂肪酰类	CAR	酰基肉碱	C9H17NO4	319130	886050	964230	527980	1005600	268700	384220	219060	259240	309890	567340	465310	174320	369870	464750
LIPID-P-0003	Carnitine C3:0	肉碱 C3:0	FA	脂肪酰类	CAR	酰基肉碱	C10H19NO4	61215	265740	130840	299620	344250	123180	187600	124420	99862	169080	287950	529490	176970	241480	385340
LIPID-P-0004	Carnitine C4:0	肉碱 C4:0	FA	脂肪酰类	CAR	酰基肉碱	C11H21NO4	28624	68382	71799	100820	57903	75568	74975	49277	70319	93228	166260	156800	137430	126950	117220
LIPID-P-0005	Carnitine C5:0	肉碱 C5:0	FA	脂肪酰类	CAR	酰基肉碱	C12H23NO4	58460	752530	563600	406770	395160	717800	429040	460280	441680	516700	666200	408180	611650	425190	412310
LIPID-P-0006	Carnitine C4:OH	肉碱 C4:OH	FA	脂肪酰类	CAR	酰基肉碱	C11H21NO5	33384	232440	232150	310350	187050	187860	147290	144600	172280	119820	477120	248320	325070	382670	170370
LIPID-P-0007	Carnitine C6:0	肉碱 C6:0	FA	脂肪酰类	CAR	酰基肉碱	C12H23NO5	12657	26934	32498	48399	21738	39365	20935	25513	25767	36737	30878	39805	23378	25305	26135
LIPID-P-0008	Carnitine C5:OH	肉碱 C5:OH	FA	脂肪酰类	CAR	酰基肉碱	C12H23NO5	151600	184370	172560	222610	202320	172560	182180	139210	151440	161970	203110	196440	176090	164620	161990
LIPID-P-0009	Carnitine C6:OH	肉碱 C6:OH	FA	脂肪酰类	CAR	酰基肉碱	C13H25NO5	108790	51952	42057	89424	45136	82602	102140	60474	83520	102270	189230	157610	155120	143190	152740
LIPID-P-0010	Carnitine C8:0	肉碱 C8:0	FA	脂肪酰类	CAR	酰基肉碱	C15H29NO6	26797	49241	33474	82495	42885	83677	73104	59472	67994	76077	80881	61561	45281	46233	42885
LIPID-P-0011	Carnitine C6:2OH	肉碱 C6:2OH	FA	脂肪酰类	CAR	酰基肉碱	C13H23NO6	136710	138510	125460	109900	118000	126870	123160	130540	124000	150960	142880	111810	116210	129860	121220
LIPID-P-0013	Carnitine C10:0	肉碱 C10:0	FA	脂肪酰类	CAR	酰基肉碱	C17H33NO4	1323.1	45523	55429	95966	20516	25956	14764	24417	30868	32196	41491	54875	30284	18122	21330
LIPID-P-0014	Carnitine C12:0	肉碱 C12:0	FA	脂肪酰类	CAR	酰基肉碱	C19H37NO4	9	36927	47988	109300	22491	22597	13300	22614	14989	11571	32717	46686	21902	31498	24749
LIPID-P-0016	Carnitine C12:OH	肉碱 C12:OH	FA	脂肪酰类	CAR	酰基肉碱	C19H37NO5	17549	9	9	6019.6	4601.2	28399	84182	28390	34938	36500	43109	26173	57332	38142	25334
LIPID-P-0017	Carnitine C14:0	肉碱 C14:0	FA	脂肪酰类	CAR	酰基肉碱	C21H41NO4	16823	376810	423740	933450	258090	196350	111390	204990	106010	178260	448910	360570	192540	266170	622320
LIPID-P-0018	Carnitine C15:0	肉碱 C15:0	FA	脂肪酰类	CAR	酰基肉碱	C22H43NO4	5226.3	31385	51200	40666	22510	18227	19639	51231	23337	41563	26077	72846	66584	43952	48451
LIPID-P-0019	Carnitine C12:1,2OH	肉碱 C12:1,2OH	FA	脂肪酰类	CAR	酰基肉碱	C19H35NO6	119300	104740	164760	122550	123720	117580	126110	131360	136020	150240	112560	144640	110980	122270	100800
LIPID-P-0020	Carnitine C14:OH	肉碱 C14:OH	FA	脂肪酰类	CAR	酰基肉碱	C21H41NO5	9	48114	43788	96193	29596	23669	9718.7	20632	11397	10296	37671	30725	18431	31346	19080
LIPID-P-0021	Carnitine C16:0	肉碱 C16:0	FA	脂肪酰类	CAR	酰基肉碱	C23H45NO4	292590	3851100	4979800	4466800	2893900	1951500	1713100	2156100	3006100	2400200	5734500	4794300	3290800	4128200	4148000
LIPID-P-0022	Carnitine C16:OH	肉碱 C16:OH	FA	脂肪酰类	CAR	酰基肉碱	C23H45NO5	36177	177790	210930	176130	119820	100870	56313	100680	73671	62497	240710	164050	103440	175960	95545
LIPID-P-0023	Carnitine C18:0	肉碱 C18:0	FA	脂肪酰类	CAR	酰基肉碱	C25H49NO4	128600	612200	1097300	513590	463870	282820	368820	319640	468300	316520	616040	605440	712320	476630	541380
LIPID-P-0024	Carnitine C20:0	肉碱 C20:0	FA	脂肪酰类	CAR	酰基肉碱	C27H53NO4	10195	86035	174390	68832	46673	44470	30682	27169	68940	32235	111930	43714	91661	61312	51732
LIPID-P-0025	Carnitine C18:OH	肉碱 C18:OH	FA	脂肪酰类	CAR	酰基肉碱	C25H49NO5	15813	19265	76527	17056	16200	12956	10870	12872	14287	7694.8	19884	12833	14271	21072	14551
LIPID-P-0026	Carnitine C3:1,2OH	肉碱 C3:1,2OH	FA	脂肪酰类	CAR	酰基肉碱	C10H17NO6	34294	222090	203020	272920	176730	139700	130880	171260	112280	444200	237760	299700	345560	157690	
LIPID-P-0027	Carnitine C4:1,2OH	肉碱 C4:1,2OH	FA	脂肪酰类	CAR	酰基肉碱	C11H19NO6	159000	201480	178700	237280	203240	181550	187190	148070	150570	173220	210160	191980	194230	182760	161970
LIPID-P-0028	Carnitine C5:1	肉碱 C5:1	FA	脂肪酰类	CAR	酰基肉碱	C12H21NO4	5193.9	13504	64644	22364	10677	13244	10075	12994	12354	12147	33687	25196	20060	25194	18215
LIPID-P-0029	Carnitine C6:1	肉碱 C6:1	FA	脂肪酰类	CAR	酰基肉碱	C13H23NO4	7671.9	7540.8	15485	23215	8893.9	24392	20196	16485	23395	26228	23217	17924	14084	18679	14602
LIPID-P-0030	Carnitine C5:1,2OH	肉碱 C5:1,2OH	FA	脂肪酰类	CAR	酰基肉碱	C12H19NO6	2246300	2054900	1926100	1928300	2239700	1941800	2175900	1983600	2057000	2107900	1836900	1855400	1862800	1970800	
LIPID-P-0031	Carnitine C8:1	肉碱 C8:1	FA	脂肪酰类	CAR	酰基肉碱	C15H27NO4	9	5791.2	17076	14410	5049.5	12496	8139.9	8380.5	18802	10881	27013	17400	20095	14783	5916.3
LIPID-P-0033	Carnitine C10:1	肉碱 C10:1	FA	脂肪酰类	CAR	酰基肉碱	C17H31NO4	9	11380	38230	35234	7123.7	8159.3	8543	10891	19949	10615	35841	27118	42245	27212	14071
LIPID-P-0035	Carnitine C12:1	肉碱 C12:1	FA	脂肪酰类	CAR	酰基肉碱	C19H33NO4	9	34206	57753	65627	22504	15586	9	18839	10422	8827.6	45531	36468	30705	29521	21448
LIPID-P-0036	Carnitine C12:1,2OH	肉碱 C12:1,2OH	FA	脂肪酰类	CAR	酰基肉碱	C19H35NO5	9	9076.5	15898	14480	8690.4	5322.7	9	6082.5	2833.2	1985.8	12569	6521.3	6590.3	8151.7	9
LIPID-P-0037	Carnitine C14:1	肉碱 C14:1	FA	脂肪酰类	CAR	酰基肉碱	C21H39NO4															

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5	
LIPID-P-0104	Cer(d18:0/20:0)	神经酰胺_Cer(d18:0/20:0)	SL	鞘脂类	Cer	神经酰胺	C38H77NO3	41073	62646	20344	48120	56917	34823	40152	43502	35948	47478	22636	24825	23628	23815	30393	
LIPID-P-0105	Cer(d18:0/22:0)	神经酰胺_Cer(d18:0/22:0)	SL	鞘脂类	Cer	神经酰胺	C40H81NO3	16420	24081	12920	220370	186550	154080	180820	173890	142320	207000	107080	151880	165640	126990	162730	
LIPID-P-0106	Cer(d18:0/24:0)	神经酰胺_Cer(d18:0/24:0)	SL	鞘脂类	Cer	神经酰胺	C42H85NO3	128140	173580	119290	209100	139040	93020	165610	178040	151450	163000	132020	222720	193160	136280	232520	
LIPID-P-0107	Cer(d18:0/24:1)	神经酰胺_Cer(d18:0/24:1)	SL	鞘脂类	Cer	神经酰胺	C42H83NO3	349370	722630	502400	649110	588180	477470	525870	492560	576010	555720	386630	468850	404100	396580	396650	
LIPID-P-0108	Cer(d18:1/14:0)	神经酰胺_Cer(d18:1/14:0)	SL	鞘脂类	Cer	神经酰胺	C32H63NO3	13106	33163	15453	18632	6576.6	33270	38385	25861	32446	26335	5513.1	4797.4	8711.2	15928	4512.2	
LIPID-P-0109	Cer(d18:1/16:0)	神经酰胺_Cer(d18:1/16:0)	SL	鞘脂类	Cer	神经酰胺	C34H67NO3	130250	227010	26220	331920	3803500	960680	3209100	1153600	3800900	2042200	3986100	2689500	1948900	2402300	5137200	
LIPID-P-0110	Cer(d18:1/17:0)	神经酰胺_Cer(d18:1/17:0)	SL	鞘脂类	Cer	神经酰胺	C35H69NO3	5622.4	20019	33999	33611	21313	11353	21068	38522	18650	28145	40803	16951	30520	55917	65382	
LIPID-P-0111	Cer(d18:1/18:0)	神经酰胺_Cer(d18:1/18:0)	SL	鞘脂类	Cer	神经酰胺	C36H71NO3	278350	803500	1145900	487630	310570	369560	272970	556850	396400	721330	595670	920460	306140	699090	400820	
LIPID-P-0113	Cer(d18:1/20:0)	神经酰胺_Cer(d18:1/20:0)	SL	鞘脂类	Cer	神经酰胺	C38H75NO3	277000	472260	458750	521590	355230	316090	431890	384780	410410	403210	414850	564430	404840	382350	563540	
LIPID-P-0114	Cer(d18:1/21:0)	神经酰胺_Cer(d18:1/21:0)	SL	鞘脂类	Cer	神经酰胺	C39H77NO3	26271	70899	30250	20622	58001	37238	73005	83550	28325	21571	47724	43433	66657	32414	73761	
LIPID-P-0115	Cer(d18:1/22:0)	神经酰胺_Cer(d18:1/22:0)	SL	鞘脂类	Cer	神经酰胺	C40H79NO3	2693800	1143800	3259300	2666900	2098100	1726100	2200500	2397600	1642000	1162600	4701400	1479400	1985200	2544200	1139700	
LIPID-P-0116	Cer(d18:1/23:0)	神经酰胺_Cer(d18:1/23:0)	SL	鞘脂类	Cer	神经酰胺	C41H81NO3	529090	534410	1319900	1279800	842580	1183500	934730	1026000	724480	1002000	1008700	2696100	2389500	2424900	2226300	
LIPID-P-0118	Cer(d18:1/25:0)	神经酰胺_Cer(d18:1/25:0)	SL	鞘脂类	Cer	神经酰胺	C43H85NO3	136980	261460	170860	317240	263010	121660	295950	208360	445820	208570	184180	189510	196280	198220	592560	
LIPID-P-0120	Cer(d18:1/16:1)	神经酰胺_Cer(d18:1/16:1)	SL	鞘脂类	Cer	神经酰胺	C34H65NO3	162250	209320	1802900	143060	157940	145870	153400	151510	161200	145330	173430	199910	210000	162260	175150	
LIPID-P-0121	Cer(d18:1/18:1)	神经酰胺_Cer(d18:1/18:1)	SL	鞘脂类	Cer	神经酰胺	C36H69NO3	118770	220260	238520	161530	164190	113100	183000	139660	109540	125430	191610	150780	175630	201450	194090	
LIPID-P-0122	Cer(d18:1/20:1)	神经酰胺_Cer(d18:1/20:1)	SL	鞘脂类	Cer	神经酰胺	C38H73NO3	86346	188930	175690	152740	135580	108270	107220	122560	123640	116530	118570	96666	111900	98233	125670	
LIPID-P-0123	Cer(d18:1/22:1)	神经酰胺_Cer(d18:1/22:1)	SL	鞘脂类	Cer	神经酰胺	C40H77NO3	852280	777370	989120	1253800	925990	586790	796940	1271900	698590	1116500	553930	407970	451100	757660	541700	
LIPID-P-0124	Cer(d18:1/24:1)	神经酰胺_Cer(d18:1/24:1)	SL	鞘脂类	Cer	神经酰胺	C42H81NO3	1937800	8118900	1242800	9566800	3699200	2881900	5115800	4292100	3513500	5039800	3620000	10935000	3407700	7652000	9438700	
LIPID-P-0125	Cer(d18:1/26:1)	神经酰胺_Cer(d18:1/26:1)	SL	鞘脂类	Cer	神经酰胺	C44H85NO3	46391	54341	128730	60625	60544	35998	61039	49580	70117	67157	95145	95965	110840	103310	108850	
LIPID-P-0129	Cer(d16:1/22:0)	神经酰胺_Cer(d16:1/22:0)	SL	鞘脂类	Cer	神经酰胺	C33H75NO3	31064	29560	22074	47913	29733	19968	16264	27435	11121	25067	15413	35265	14646	20941	43454	
LIPID-P-0130	Cer(d16:1/23:0)	神经酰胺_Cer(d16:1/23:0)	SL	鞘脂类	Cer	神经酰胺	C33H77NO3	19533	12299	14712	25609	14445	9830.2	9702.5	26020	10322	5412.3	7620.4	27942	21301	9683.7	20363	
LIPID-P-0131	Cer(d16:1/24:0)	神经酰胺_Cer(d16:1/24:0)	SL	鞘脂类	Cer	神经酰胺	C40H79NO3	20285	31376	39055	25544	27582	18076	27320	20422	15549	21958	17732	31494	24336	11424	29289	
LIPID-P-0132	Cer(d16:1/24:1)	神经酰胺_Cer(d16:1/24:1)	SL	鞘脂类	Cer	神经酰胺	C40H77NO3	87498	43735	86823	62888	74643	55161	53130	37077	24366	31149	42830	48330	35985	55675	61511	
LIPID-P-0134	Cer(d18:2/16:0)	神经酰胺_Cer(d18:2/16:0)	SL	鞘脂类	Cer	神经酰胺	C34H65NO3	51281	14370	250420	85395	124430	13164	66885	37715	50061	31009	73041	105820	97585	89378	73246	
LIPID-P-0136	Cer(d18:2/18:0)	神经酰胺_Cer(d18:2/18:0)	SL	鞘脂类	Cer	神经酰胺	C36H69NO3	12774	32739	159200	41757	20390	23249	45513	15235	26210	67762	50494	74026	17505	76734	53526	
LIPID-P-0137	Cer(d18:2/20:0)	神经酰胺_Cer(d18:2/20:0)	SL	鞘脂类	Cer	神经酰胺	C38H73NO3	60837	89469	273280	58728	97533	76063	49148	59439	103560	47195	71181	77054	63842	40485	92347	
LIPID-P-0138	Cer(d18:2/21:0)	神经酰胺_Cer(d18:2/21:0)	SL	鞘脂类	Cer	神经酰胺	C39H75NO3	18478	17924	33740	18675	14183	17369	18169	16342	15007	19785	13984	18472	13643	15770	14482	
LIPID-P-0139	Cer(d18:2/22:0)	神经酰胺_Cer(d18:2/22:0)	SL	鞘脂类	Cer	神经酰胺	C40H77NO3	357870	229640	386470	224290	269210	242030	306410	306410	266760	229220	343300	197040	378460	268690	382560	
LIPID-P-0140	Cer(d18:2/23:0)	神经酰胺_Cer(d18:2/23:0)	SL	鞘脂类	Cer	神经酰胺	C41H79NO3	222870	294280	470640	154150	94880	60773	402700	124800	178880	90293	231570	85148	114160	208730	167680	
LIPID-P-0141	Cer(d18:2/24:0)	神经酰胺_Cer(d18:2/24:0)	SL	鞘脂类	Cer	神经酰胺	C42H81NO3	274460	489590	734920	179420	204040	190440	223230	167560	226070	218940	783890	572940	313870	294980	266820	
LIPID-P-0142	Cer(d18:2/24:1)	神经酰胺_Cer(d18:2/24:1)	SL	鞘脂类	Cer	神经酰胺	C42H79NO3	28890	28320	131690	345200	418410	329680	498030	373420	214280	602550	527690	607550	626350	289430	408460	
LIPID-P-0143	Cer(d18:1/18:1)	1-鞘脂神经酰胺_CerP(d18:1/18:1)	SL	鞘脂类	CerP	1-鞘脂神经酰胺	C36H70NO6P	10416	11150	21460	16813	12466	17432	11257	16773	19653	17174	27399	30241	16510	30157	24334	
LIPID-P-0159	Coenzyme Q8	辅酶Q_Coenzyme Q8	PR	异戊烯醇脂类	CoQ	辅酶Q	C53H80O4	3985900	4896500	3000900	5261100	5110400	4095300	4625900	3637500	4730200	3756700	4037500	4346900	3895300	4603800	4188000	
LIPID-P-0160	Coenzyme Q9	辅酶Q_Coenzyme Q9	PR	异戊烯醇脂类	CoQ	辅酶Q	C54H82O4	2148900	23044000	46826000	2716100	25681000	30179000	32374000	25106000	37252000	28598000	28035000	37657000	26379000	30138000	26036000	
LIPID-P-0161	Coenzyme Q10	辅酶Q_Coenzyme Q10	PR	异戊烯醇脂类	CoQ	辅酶Q	C59H90O4	1102100	1031400	2239700	1103100	1036500	2225500	2411800	1173500	2032800	1506300	670440	484640	859070	541130		
LIPID-P-0167	DG(14:0_16:0)	甘油二酯_DG(14:0_16:0)	GL	甘油酯类	DG	甘油二酯	C35H66O4	24468	41921	36963	66798	50672	25704	27404	16409	11840	16678	12619	27718	32619	42796	20246	
LIPID-P-0169	DG(16:0_16:0)	甘油二酯_DG(16:0_16:0)	GL	甘油酯类	DG	甘油二酯	C35H68O4	139240	1436500	1437800	1547300	1641700	1799300	999880	1149700	1436000	1536300	1631600	1216900	1559000	1050800	945130	
LIPID-P-0174	DG(16:0_18:0)	甘油二酯_DG(16:0_18:0)	GL	甘油酯类	DG	甘油二酯	C37H72O4	129900	1588400	2007800	1428500	879970	1296600	1165200	1535900	1110400	955130	923900	1482300	1513400	1664900	1031700	
LIPID-P-0178	DG(18:0_18:0)	甘油二酯_DG(18:0_18:0)	GL	甘油酯类	DG	甘油二酯	C39H76O4	2199200	1779500	1066300	1262400	3045900	1241500	2008700	1730600	1607200	1700900	1032300	730990	702730	1483000	1493300	
LIPID-P-0181	DG(19:0_18:0)	甘油二酯_DG(19:0_18:0)	GL	甘油酯类	DG	甘油二酯	C40H78O4	88152	78837	96283	84717	107200	87175	69709	99782	84709	100230	107590	100100	87815	91199	118580	
LIPID-P-0182	DG(21:0_16:0)	甘油二酯_DG(21:0_16:0)	GL	甘油酯类	DG	甘油二酯	C40H78O4	78023	83012	79746	77430	115290	84839	118480	129780	97771	103940	114800	123760	115980	119380	109300	
LIPID-P-0188	DG(14:0_16:1)	甘油二酯_DG(14:0_16:1)	GL	甘油酯类	DG	甘油二酯	C33H66O4	349450	309390	389830	323080	335240	296670	284580	302760	296730	337230	310710	296860	291280	312280	287490	
LIPID-P-0191	DG(14:0_18:1)	甘油二酯_DG(14:0_18:1)	GL	甘油酯类	DG	甘油二酯	C35H66O4	429660	339450	331630	753490	392870	536290	305820	370560	283950	340960	184430	140470	93449	158660	211260	
LIPID-P-0192	DG(16:0_16:1)	甘油二酯_DG(16:0_16:1)	GL	甘油酯类	DG	甘油二酯	C35H66O4	1490700	1515800	1273500	1338800	1204000	758580	545920	749660	496240	942870	389190	384490	245000	450120	360810	
LIPID-P-0193	DG(16:0_17:1)	甘油二酯_DG(16:0_17:1)	GL	甘油酯类	DG	甘油二酯	C36H68O4	52745	34280	30914	58109	44133	49341	43443	48418	28452	63199	42547	23840	22041	28251	27978	
LIPID-P-0194	DG(15:0_18:1)	甘油二酯_DG(15:0_18:1)	GL	甘油酯类	DG	甘油二酯	C36H68O4	55585	36471	48705	70509	49605	53428	67541	63194	54172	50589	41794	48107	48670	48690	37709	
LIPID-P-0195	DG(16:1_18:0)	甘油二酯_DG(16:1_18:0)	GL	甘油酯类	DG	甘油二酯	C37H70O4	80489	58376	59389	84073	109650	89191	39590	37394	40882	52321	29590	16323	19874	22795	31365	
LIPID-P-0196	DG(16:0_18:1)	甘油二酯_DG(16:0_18:1)	GL	甘油酯类	DG	甘油二酯	C37H70O4	16377000	14518000	12606000	18783000	15852000	18038000	11782000									

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HFD1	HFD2	HFD3	HFD4	HFD5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0234	DG(18:0_20:3)	甘油二酯_DG(18:0_20:3)	GL	甘油酯类	DG	甘油二酯	C41H74O5	219100	403700	99669	429880	274980	194930	165320	206470	103970	200580	91466	214250	97854	141080	164560
LIPID-P-0235	DG(18:1_22:2)	甘油二酯_DG(18:1_22:2)	GL	甘油酯类	DG	甘油二酯	C43H78O5	37482	142078	41059	41853	2191	22184	15411	19559	18349	37125	23228	10545	10349	14193	13396
LIPID-P-0236	DG(18:2_22:1)	甘油二酯_DG(18:2_22:1)	GL	甘油酯类	DG	甘油二酯	C43H78O5	36523	14929	29039	21084	17315	28814	4000.6	13815	13175	31674	29478	19224	7622	35873	41466
LIPID-P-0238	DG(16:1_18:3)	甘油二酯_DG(16:1_18:3)	GL	甘油酯类	DG	甘油二酯	C37H64O5	125100	83372	226750	66559	137350	63692	44751	54393	36374	57272	109320	26145	49992	154920	58575
LIPID-P-0239	DG(16:0_20:4)	甘油二酯_DG(16:0_20:4)	GL	甘油酯类	DG	甘油二酯	C39H68O5	4919700	3751100	482100	4622700	4363600	3075100	3037800	4216600	2530100	5264400	2529600	3383700	908690	2288100	2703200
LIPID-P-0240	DG(18:2_18:2)	甘油二酯_DG(18:2_18:2)	GL	甘油酯类	DG	甘油二酯	C39H68O5	1837200	982720	1979800	1765500	2524600	1867500	1615000	1590000	1418700	2427500	5402800	4613500	2521000	7598000	4006300
LIPID-P-0241	DG(16:1_20:3)	甘油二酯_DG(16:1_20:3)	GL	甘油酯类	DG	甘油二酯	C39H68O5	195580	62774	237580	128920	149280	108880	59135	69179	65755	102400	67762	47681	12767	46633	56622
LIPID-P-0242	DG(18:1_20:3)	甘油二酯_DG(18:1_20:3)	GL	甘油酯类	DG	甘油二酯	C41H72O5	405480	430270	709650	646680	605240	476320	204780	543840	464840	754170	590950	400570	167740	529110	433980
LIPID-P-0243	DG(18:0_20:4)	甘油二酯_DG(18:0_20:4)	GL	甘油酯类	DG	甘油二酯	C41H72O5	5229100	7637900	6702900	7471000	7226900	4095400	3809900	3353200	3368700	5361200	7121900	5838100	1996000	5708000	5548600
LIPID-P-0244	DG(18:1_20:3)	甘油二酯_DG(18:1_20:3)	GL	甘油酯类	DG	甘油二酯	C41H72O5	27815	41256	61833	68373	36115	59339	37152	48829	45179	31222	69242	45276	41167	45726	59019
LIPID-P-0245	DG(18:1_22:3)	甘油二酯_DG(18:1_22:3)	GL	甘油酯类	DG	甘油二酯	C43H76O5	160140	146810	559280	288330	186550	169730	83918	102340	100170	122350	64010	44471	20445	63080	43672
LIPID-P-0246	DG(18:2_18:3)	甘油二酯_DG(18:2_18:3)	GL	甘油酯类	DG	甘油二酯	C39H66O5	145970	205750	958120	251670	196730	400490	408190	379090	263630	508380	899470	503280	333810	1162200	469100
LIPID-P-0248	DG(16:1_20:4)	甘油二酯_DG(16:1_20:4)	GL	甘油酯类	DG	甘油二酯	C39H66O5	1045800	809270	1937800	757030	741180	701440	490410	552870	543780	624060	727660	355480	223910	636820	441750
LIPID-P-0250	DG(17:1_20:4)	甘油二酯_DG(17:1_20:4)	GL	甘油酯类	DG	甘油二酯	C40H68O5	24806	32065	87675	54459	43575	53401	59715	67440	25314	41853	26550	41429	11728	31513	28909
LIPID-P-0251	DG(18:2_20:3)	甘油二酯_DG(18:2_20:3)	GL	甘油酯类	DG	甘油二酯	C41H70O5	213080	167560	452170	173500	221300	174970	186460	335380	101890	355330	604290	276350	168470	396500	397660
LIPID-P-0252	DG(18:1_20:4)	甘油二酯_DG(18:1_20:4)	GL	甘油酯类	DG	甘油二酯	C41H70O5	7564300	6859300	13292000	8209300	5731800	10312000	6848000	6154800	4947600	6196600	7643700	7989100	3349600	7818000	6670500
LIPID-P-0253	DG(16:0_22:5)	甘油二酯_DG(16:0_22:5)	GL	甘油酯类	DG	甘油二酯	C41H70O5	79193	70961	264710	85671	112420	93598	58442	103710	95923	131600	206430	259280	76501	191690	219950
LIPID-P-0256	DG(18:0_22:5)	甘油二酯_DG(18:0_22:5)	GL	甘油酯类	DG	甘油二酯	C43H74O5	13412	12589	20971	22669	13760	18954	8859.4	11641	11653	15751	22163	34103	18697	21759	26596
LIPID-P-0257	DG(18:1_22:4)	甘油二酯_DG(18:1_22:4)	GL	甘油酯类	DG	甘油二酯	C43H74O5	242330	280540	1531000	398430	438000	62410	296840	329630	437010	399870	640890	474160	268030	595740	395990
LIPID-P-0259	DG(18:2_20:4)	甘油二酯_DG(18:2_20:4)	GL	甘油酯类	DG	甘油二酯	C41H68O5	2086400	1026400	742180	1339600	1300200	964880	1421600	934680	1149100	2884100	4240500	1362600	3746200	4307400	
LIPID-P-0260	DG(18:1_20:5)	甘油二酯_DG(18:1_20:5)	GL	甘油酯类	DG	甘油二酯	C41H68O5	94521	73905	259330	120880	142480	83956	54644	72766	58903	78439	262880	95578	108510	129880	146780
LIPID-P-0261	DG(16:0_22:6)	甘油二酯_DG(16:0_22:6)	GL	甘油酯类	DG	甘油二酯	C41H68O5	1850700	5509200	7253900	4047400	5091800	4807900	2666700	4339200	5029500	2959900	2287300	1594000	2943400	3304600	
LIPID-P-0262	DG(16:1_22:5)	甘油二酯_DG(16:1_22:5)	GL	甘油酯类	DG	甘油二酯	C41H68O5	125069	435300	660940	225540	577220	386650	236020	344300	233390	356600	221760	243890	105370	325200	393140
LIPID-P-0264	DG(18:2_22:4)	甘油二酯_DG(18:2_22:4)	GL	甘油酯类	DG	甘油二酯	C43H72O5	92099	67500	443370	67597	100390	55869	60535	141630	95066	100180	429840	220010	204030	276990	364550
LIPID-P-0265	DG(18:1_22:5)	甘油二酯_DG(18:1_22:5)	GL	甘油酯类	DG	甘油二酯	C43H72O5	128240	128390	394800	135580	185910	166630	89462	125110	92052	88495	333450	218200	86909	217970	313720
LIPID-P-0266	DG(18:0_22:6)	甘油二酯_DG(18:0_22:6)	GL	甘油酯类	DG	甘油二酯	C43H72O5	2959570	6297740	501560	866330	1084100	621280	440110	646680	403690	414130	540030	552950	210040	487500	384750
LIPID-P-0267	DG(20:0_22:6)	甘油二酯_DG(20:0_22:6)	GL	甘油酯类	DG	甘油二酯	C45H76O5	10757	5914.6	9050.4	2870.1	8737.4	11348	3855.8	5876.5	5251.6	4910.4	8207.2	11191	4915.1	10396	14162
LIPID-P-0268	DG(16:1_22:6)	甘油二酯_DG(16:1_22:6)	GL	甘油酯类	DG	甘油二酯	C41H66O5	381710	294880	2052400	693800	753320	618420	374440	549350	286640	613960	761450	359510	498860	472350	751970
LIPID-P-0269	DG(18:1_22:6)	甘油二酯_DG(18:1_22:6)	GL	甘油酯类	DG	甘油二酯	C43H70O5	4225400	3575200	1741700	5880800	6393300	5127700	2439100	3107600	5628200	5232800	11704000	6445500	6168000	8962900	5660400
LIPID-P-0270	DG(18:2_22:5)	甘油二酯_DG(18:2_22:5)	GL	甘油酯类	DG	甘油二酯	C43H70O5	54523	619570	52297	30996	54089	77633	57856	78764	114550	117060	144690	88835	130460	147120	
LIPID-P-0271	DG(18:2_22:6)	甘油二酯_DG(18:2_22:6)	GL	甘油酯类	DG	甘油二酯	C43H68O5	1231100	627510	6349700	953660	1114400	1161700	1241600	1041300	1489100	1306600	7723500	2533700	3716400	5537400	5256600
LIPID-P-0274	MG(16:0)	单甘油酯_MG(16:0)	GL	甘油酯类	MG	单甘油酯	C19H38O4	240920	185960	409300	223040	205000	194830	325210	192740	232010	191340	231040	246160	266750	251220	225000
LIPID-P-0276	MG(18:0)	单甘油酯_MG(18:0)	GL	甘油酯类	MG	单甘油酯	C21H42O4	168150	147150	518300	177690	199390	179440	204920	168850	227690	161780	198330	190660	234140	188130	194980
LIPID-P-0282	MG(18:1)	单甘油酯_MG(18:1)	GL	甘油酯类	MG	单甘油酯	C21H40O4	44203	51157	292040	222360	47568	50271	96378	56794	131050	61140	307280	154650	277530	177680	135010
LIPID-P-0283	MG(18:2)	单甘油酯_MG(18:2)	GL	甘油酯类	MG	单甘油酯	C21H38O4	36021	86006.6	56133	10689	55425	4996.9	14323	9435.2	16077	6758.8	88507	48902	65613	52279	43209
LIPID-P-0292	HexCer(d18:1/16:0)	糖鞘脂_HexCer(d18:1/16:0)	SL	鞘脂类	HexCer	糖鞘脂	C40H77NO8	174330	395640	242640	182340	397830	301400	335040	359700	240140	282470	720470	224480	394600	297120	455650
LIPID-P-0293	HexCer(d18:1/17:0)	糖鞘脂_HexCer(d18:1/17:0)	SL	鞘脂类	HexCer	糖鞘脂	C41H79NO8	12202	11682	12680	40038	24659	55044	47084	51144	11627	47737	25669	71550	52945	95477	19547
LIPID-P-0294	HexCer(d18:1/18:0)	糖鞘脂_HexCer(d18:1/18:0)	SL	鞘脂类	HexCer	糖鞘脂	C42H81NO8	31651	116190	145910	121080	60838	66150	30555	15176	75617	28990	45837	23969	36318	24396	15783
LIPID-P-0296	HexCer(d18:1/20:0)	糖鞘脂_HexCer(d18:1/20:0)	SL	鞘脂类	HexCer	糖鞘脂	C44H85NO8	135760	165970	69417	181340	77130	205800	236810	106430	259660	189670	80825	92200	190230	145470	142270
LIPID-P-0297	HexCer(d18:1/22:0)	糖鞘脂_HexCer(d18:1/22:0)	SL	鞘脂类	HexCer	糖鞘脂	C46H89NO8	750960	488800	321970	763060	532750	439310	557850	449850	545460	594150	690120	557570	382920	525160	309690
LIPID-P-0298	HexCer(d18:1/23:0)	糖鞘脂_HexCer(d18:1/23:0)	SL	鞘脂类	HexCer	糖鞘脂	C47H91NO8	119480	78514	388950	175130	538750	167970	295040	248460	422410	110670	120230	89722	199230	132960	101550
LIPID-P-0299	HexCer(d18:1/24:0)	糖鞘脂_HexCer(d18:1/24:0)	SL	鞘脂类	HexCer	糖鞘脂	C48H93NO8	116750	132220	635400	334310	231210	204310	323310	457850	288080	158540	381340	360630	517410	944640	377950
LIPID-P-0300	HexCer(d18:1/25:0)	糖鞘脂_HexCer(d18:1/25:0)	SL	鞘脂类	HexCer	糖鞘脂	C49H95NO8	14543	18806	10838	13754	17836	10166	34127	10981	7407.2	8471.3	12210	12027	6593.9	37762	15332
LIPID-P-0302	HexCer(d18:1/16:1)	糖鞘脂_HexCer(d18:1/16:1)	SL	鞘脂类	HexCer	糖鞘脂	C40H75NO8	96524	116450	754740	87250	85134	98522	78849	133090	96632	99623	98492	102170	100900	87709	78433
LIPID-P-0303	HexCer(d18:1/18:1)	糖鞘脂_HexCer(d18:1/18:1)	SL	鞘脂类	HexCer	糖鞘脂	C42H79NO8	12988	13667	12598	9831.2	14837	17109	4639.4	17235	14256	7465.4	19153	9981.8	10502	9515.1	
LIPID-P-0304	HexCer(d18:1/20:1)	糖鞘脂_HexCer(d18:1/20:1)	SL	鞘脂类	HexCer	糖鞘脂	C44H83NO8	7423.8	13930	77778	12975	9401.7	13826	15124	10810	13709	12728	11490	17132	14043	9717.2	8614.5
LIPID-P-0305	HexCer(d18:1/22:1)	糖鞘脂_HexCer(d18:1/22:1)	SL	鞘脂类	HexCer	糖鞘脂	C46H87NO8	12758	20870	133060	21490	15386	18353	20486	26083	20293	21350	14728	23394	27357	17734	22176
LIPID-P-0306	HexCer(d18:1/24:1)	糖鞘脂_HexCer(d18:1/24:1)	SL	鞘脂类	HexCer	糖鞘脂	C48H91NO8	12821	28335	157800	17601	18496	24786	19426	27670	17454	28070	30176	17940	2523		

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0377	LPC(24:0/18:2)	溶血磷脂酰胆碱 LPC(24:1/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C22H64NO7P	18826	37783	57442	47560	25875	28264	20881	18670	18333	24455	48777	34373	30812	56872	25047
LIPID-P-0378	LPC(0:0/18:2)	溶血磷脂酰胆碱 LPC(0:0/18:2)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C26H50NO7P	10626000	12755000	13664000	14416000	9793200	13719000	19398000	8995500	23156000	13122000	20140000	27254000	42455000	19850000	23600000
LIPID-P-0381	LPC(20:2/0:0)	溶血磷脂酰胆碱 LPC(20:2/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C28H54NO7P	19983000	13362000	14339000	22430000	11195000	18033000	22166000	9121200	28060000	14196000	13532000	18164000	25400000	13300000	16043000
LIPID-P-0382	LPC(22:2/0:0)	溶血磷脂酰胆碱 LPC(22:2/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C30H58NO7P	103210	114910	316220	171470	84409	100630	146330	197580	104630	239550	223050	372960	172110	198980	
LIPID-P-0384	LPC(20:3/0:0)	溶血磷脂酰胆碱 LPC(20:3/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C28H52NO7P	26590000	29592000	23082000	35837000	24980000	33552000	32449000	21233000	40375000	29310000	25370000	33920000	43226000	26841000	32819000
LIPID-P-0385	LPC(18:4/0:0)	溶血磷脂酰胆碱 LPC(18:4/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C26H46NO7P	243270	572290	393270	707190	409830	565100	461850	346040	495890	485500	588620	691760	946150	487130	586710
LIPID-P-0386	LPC(20:4/0:0)	溶血磷脂酰胆碱 LPC(20:4/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C28H50NO7P	13948000	29041000	24785000	32657000	23395000	32409000	31814000	19660000	37749000	26574000	31986000	30271000	38416000	30265000	28680000
LIPID-P-0387	LPC(0:0/22:4)	溶血磷脂酰胆碱 LPC(0:0/22:4)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C30H54NO7P	9683800	8787000	17600000	10355000	7406000	14251000	15268000	8323100	21553000	11589000	15589000	15381000	22367000	13945000	14221000
LIPID-P-0389	LPC(20:5/0:0)	溶血磷脂酰胆碱 LPC(20:5/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C28H48NO7P	10147000	23542000	20547000	33037000	17918000	16031000	19455000	11899000	25570000	14581000	20685000	27462000	49636000	17423000	24363000
LIPID-P-0390	LPC(0:0/22:5)	溶血磷脂酰胆碱 LPC(0:0/22:5)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C30H52NO7P	23932000	39462000	37068000	49907000	32585000	41072000	53443000	26918000	65427000	39538000	60398000	67599000	81795000	53540000	61309000
LIPID-P-0392	LPC(22:6/0:0)	溶血磷脂酰胆碱 LPC(22:6/0:0)	GP	甘油磷脂类	LPC	溶血磷脂酰胆碱	C30H50NO7P	50019000	68234000	63390000	75780000	62994000	65044000	73730000	53030000	77608000	66567000	80676000	80198000	86345000	77808000	81028000
LIPID-P-0393	LPC(0:14/0)	溶血磷脂酰胆碱 LPC(0:14/0)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C22H48NO6P	15493	36962	66959	33922	33483	25407	14922	24647	95772	23407	38466	26491	26732	34063	29509
LIPID-P-0394	LPC(0:16/0)	溶血磷脂酰胆碱 LPC(0:16/0)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C24H52NO6P	2838900	4310200	8338200	4556100	3519300	3907000	2848400	3090800	2843700	3619300	6015100	5352800	5084900	4417000	4387200
LIPID-P-0395	LPC(0:18/0)	溶血磷脂酰胆碱 LPC(0:18/0)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C26H56NO6P	175280	265970	620440	305330	231400	253110	211980	197930	215580	230670	417140	388230	482770	309140	341860
LIPID-P-0396	LPC(0:20/0)	溶血磷脂酰胆碱 LPC(0:20/0)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C28H60NO6P	45181	69573	196820	90736	67996	83708	81767	62703	81772	77327	110310	124430	170670	94158	114770
LIPID-P-0397	LPC(0:22/0)	溶血磷脂酰胆碱 LPC(0:22/0)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C30H64NO6P	22285	35099	116860	44734	27262	30397	39161	32253	41007	37160	58363	65382	31605	34015	
LIPID-P-0399	LPC(0:16:1)	溶血磷脂酰胆碱 LPC(0:16:1)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C24H50NO6P	90891	307070	404630	358020	205090	141230	132780	108160	135070	127730	405550	262980	555440	242680	240360
LIPID-P-0400	LPC(0:18:1)	溶血磷脂酰胆碱 LPC(0:18:1)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C26H54NO6P	2517400	5043600	5360800	3478000	3626200	2989100	2546800	2706700	3354000	8339300	5296200	5645400	5941900	4230600	
LIPID-P-0401	LPC(0:20:1)	溶血磷脂酰胆碱 LPC(0:20:1)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C28H58NO6P	9803.3	18364	32278	21999	12198	10189	993.6	10365	9355.9	12669	23219	25701	27736	18515	21134
LIPID-P-0402	LPC(0:22:1)	溶血磷脂酰胆碱 LPC(0:22:1)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C30H62NO6P	9	3981.6	3904.4	7763.6	3743.2	2902.5	3194.8	2209	3150.9	4035.8	9265.2	11711	13038	9841.5	9631.6
LIPID-P-0403	LPC(0:18:2)	溶血磷脂酰胆碱 LPC(0:18:2)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C26H52NO6P	62049	102320	299450	107520	73284	99006	69744	57345	62290	85077	472210	312810	341760	341490	257730
LIPID-P-0404	LPC(0:20:2)	溶血磷脂酰胆碱 LPC(0:20:2)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C28H56NO6P	15337	34087	89352	34327	21836	33387	21290	24012	16298	57299	122270	76813	100400	91624	69150
LIPID-P-0406	LPC(0:20:3)	溶血磷脂酰胆碱 LPC(0:20:3)	GP	甘油磷脂类	LPC-O	溶血磷脂酰胆碱	C28H54NO6P	73145	8448.9	13924	7416.6	6967.5	7891.9	4581.4	3763.1	5943.3	3673.4	17515	9974.4	14563	12949	17603
LIPID-P-0410	LPE(0:0/18:0)	溶血磷脂酰乙醇胺 LPE(0:0/18:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H48NO7P	1304000	6777700	2974200	75426000	3346000	3053400	1896200	2892700	1909700	3622700	7177000	8674600	7984200	4735200	7606600
LIPID-P-0411	LPE(18:0/0:0)	溶血磷脂酰乙醇胺 LPE(18:0/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H48NO7P	13324000	7051000	2908600	7720900	3278000	3269400	1905400	2829400	1860000	3673100	7290200	8640300	7917500	4668800	7027200
LIPID-P-0412	LPE(20:0/0:0)	溶血磷脂酰乙醇胺 LPE(20:0/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H52NO7P	91781	21108	133640	31756	11305	131400	66155	129840	58773	156280	276660	470200	337600	168560	406900
LIPID-P-0413	LPE(22:0/0:0)	溶血磷脂酰乙醇胺 LPE(22:0/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H56NO7P	5607.5	11616	34160	20437	6889.3	6187.9	7136.1	8092.5	5823.7	11670	15161	21674	15752	14615	19952
LIPID-P-0414	LPE(24:0/0:0)	溶血磷脂酰乙醇胺 LPE(24:0/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C29H60NO7P	4977.6	12350	23594	57041	9	3875.5	9	6281.9	9	2760.5	15203	12749	10336	11908	6832.7
LIPID-P-0415	LPE(16:1/0:0)	溶血磷脂酰乙醇胺 LPE(16:1/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H48NO7P	254870	1952600	2222000	1717700	1233600	865520	355980	572760	328230	1069700	1600900	1665400	1828500	1078100	1412500
LIPID-P-0419	LPE(0:0/20:1)	溶血磷脂酰乙醇胺 LPE(0:0/20:1)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H50NO7P	192110	181150	262580	382890	117730	178580	145400	89152	193940	149010	150620	194770	231630	124330	174100
LIPID-P-0420	LPE(20:1/0:0)	溶血磷脂酰乙醇胺 LPE(20:1/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H50NO7P	325890	1372400	1136000	2017800	576390	973750	844420	626750	485000	945100	1539400	2129900	2080700	1034000	1650200
LIPID-P-0423	LPE(0:0/18:2)	溶血磷脂酰乙醇胺 LPE(0:0/18:2)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H44NO7P	4721500	5040800	7823700	6197300	3562000	5501300	5508400	3769400	7278000	5249300	10384000	13908000	2128000	9444000	12578000
LIPID-P-0424	LPE(18:2/0:0)	溶血磷脂酰乙醇胺 LPE(18:2/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C23H44NO7P	762810	2114600	1794200	2081700	1198400	1199700	1080600	886040	1270700	1176800	3499900	4063400	4868700	2156300	3318400
LIPID-P-0425	LPE(0:0/20:2)	溶血磷脂酰乙醇胺 LPE(0:0/20:2)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H48NO7P	84279	113130	377610	175360	65738	132300	127960	98457	229140	125560	219100	322770	387810	170110	240390
LIPID-P-0426	LPE(20:2/0:0)	溶血磷脂酰乙醇胺 LPE(20:2/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H48NO7P	64234	223450	314210	244460	95651	160610	125330	138880	126410	160230	366110	529800	401850	249930	430470
LIPID-P-0429	LPE(0:0/20:3)	溶血磷脂酰乙醇胺 LPE(0:0/20:3)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H46NO7P	293600	3521100	3409100	4903300	2439900	3694900	2639700	2793400	3548800	3403300	3145900	4687300	5301500	2907100	4392400
LIPID-P-0431	LPE(22:3/0:0)	溶血磷脂酰乙醇胺 LPE(22:3/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H50NO7P	30396	30311	87723	37429	26932	51783	55167	37218	61832	50266	90309	73030	89855	80463	70300
LIPID-P-0433	LPE(22:4/0:0)	溶血磷脂酰乙醇胺 LPE(22:4/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H48NO7P	80550	750220	1888000	836740	543630	1145200	1184100	749760	1618700	1214300	1977100	1732400	1998300	1841100	1662600
LIPID-P-0434	LPE(20:5/0:0)	溶血磷脂酰乙醇胺 LPE(20:5/0:0)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C25H42NO7P	202330	469480	349250	651620	299330	267110	287300	237550	344310	285490	436200	544460	571750	341720	390800
LIPID-P-0435	LPE(0:0/22:5)	溶血磷脂酰乙醇胺 LPE(0:0/22:5)	GP	甘油磷脂类	LPE	溶血磷脂酰乙醇胺	C27H46NO7P	887030	1000700	1582800	993770	685130	1332700	1262700	1143300	1607700	1166300	3247600	4046500	4242500	2649700	4101400
LIPID-P-0438	LPE(P-16/0)	溶血磷脂酰乙醇胺 LPE(P-16/0)	GP	甘油磷脂类	LPE-P	溶血磷脂酰乙醇胺	C21H44NO6P	211740	1182900	2013400	1436500	497590	451220	257940	288260	331610	363870	2143800	990680	2301100	1433600	892630
LIPID-P-0439	LPE(P-17/0)	溶血磷脂酰乙醇胺 LPE(P-17/0)	GP	甘油磷脂类	LPE-P	溶血磷脂酰乙醇胺	C22H46NO6P	6642.8	40263	82446	49736	17066	29463	18104	19936	24434	23698	104600	64240	111520	53685	50526
LIPID-P-0440	LPE(P-18/0)	溶血磷脂酰乙醇胺 LPE(P-18/0)	GP	甘油磷脂类	LPE-P	溶血磷脂酰乙醇胺	C23H48NO6P	36729	256030	403000	366500	116850	169710	101250	120780	133430	151670	161640	902530	512540	364600	414630
LIPID-P-0441	LPE(P-20/0)	溶血磷脂酰乙醇胺 LPE(P-20/0)	GP	甘油磷脂类	LPE-P	溶血磷脂酰乙醇胺	C25H52NO6P	8446.3	36423	71091	60477	21565	31857	24606	24758	33199	28981	74117	79671	149690	53477	61774
LIPID-P-0442	LPE(P-22/0)	溶血磷脂酰乙醇胺 LPE(P-22/0)	GP	甘油磷脂类	LPE-P	溶血磷脂酰乙醇胺	C27H56NO6P	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LIPID-P-0445	LPE(P-18:1)	溶血磷脂酰乙醇胺 LPE(P-18:1)	GP	甘油磷脂类	LPE-P	溶血磷脂酰乙醇胺	C23H46NO6P	44077	462630	636170	505100	188560	108840	65690	75866	81293	85498	588900	248670	540320	292580	214620
LIPID-P-0446	LPG(16:0/0:0)	溶血磷脂酰甘油 LPG(16:0/0:0)	GP	甘油磷脂类	LPG																	

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0487	PC(18:1_22:0)	磷脂酰胆碱_PC(18:1_22:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H94NO8P	382240	348220	788780	437280	316610	305310	307670	271110	278140	245190	455430	255640	243420	501110	275220
LIPID-P-0488	PC(24:0_18:1)	磷脂酰胆碱_PC(24:0_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C60H98NO8P	187710	177210	477000	191980	139760	135370	141300	140140	108730	115550	180390	108560	82068	233830	116310
LIPID-P-0489	PC(14:0_18:2)	磷脂酰胆碱_PC(14:0_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C40H76NO8P	4156400	3267600	4255500	3617200	4275600	2730200	2386200	2958900	2471400	2675900	2205400	2126100	2616300	2099800	2138300
LIPID-P-0490	PC(16:0_18:2)	磷脂酰胆碱_PC(16:0_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H80NO8P	2517100	2448500	2637200	2165900	2502200	2401700	2796600	2657400	2833300	2736100	3245600	3855000	3658400	3449500	3660000
LIPID-P-0491	PC(17:1_18:1)	磷脂酰胆碱_PC(17:1_18:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C43H82NO8P	5827800	5362300	6431800	5084900	6124300	6682100	8925500	7525300	8895800	7792700	7503100	9033000	8899900	8454000	8549000
LIPID-P-0492	PC(18:0_18:2)	磷脂酰胆碱_PC(18:0_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H84NO8P	6837400	7952700	8009700	7904200	7478600	9032500	7942400	8115700	7378000	8961000	9958800	9414400	9349000	9825100	
LIPID-P-0493	PC(19:0_18:2)	磷脂酰胆碱_PC(19:0_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C45H86NO8P	2556600	2468300	3585500	1858700	3083500	2020500	3025400	2641800	3237100	3023400	4547200	6499600	5279200	4485300	6170000
LIPID-P-0494	PC(18:0_20:2)	磷脂酰胆碱_PC(18:0_20:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H88NO8P	2157900	1482700	1627100	3257200	1683300	1847900	1227400	1422900	1125800	1364700	4564300	5050800	4239300	4696200	5032700
LIPID-P-0495	PC(18:1_22:1)	磷脂酰胆碱_PC(18:1_22:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H92NO8P	118770	62721	166250	49700	76766	64641	62103	74828	85527	62878	13414	182970	163270	180860	162130
LIPID-P-0496	PC(18:1_24:1)	磷脂酰胆碱_PC(18:1_24:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C50H96NO8P	119090	97540	225760	98857	128730	90506	109980	97513	111660	101240	188220	194500	223230	198920	
LIPID-P-0497	PC(14:0_18:3)	磷脂酰胆碱_PC(14:0_18:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C40H74NO8P	521600	452030	742880	539310	564420	393810	436830	470580	364390	458460	454740	509250	669550	509380	420480
LIPID-P-0498	PC(16:0_18:3)	磷脂酰胆碱_PC(16:0_18:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H78NO8P	3989300	4605700	4933200	3148300	5337900	3803500	4354400	3656800	3923600	4980500	5073700	4499500	5422500	5618500	4980000
LIPID-P-0499	PC(17:1_18:2)	磷脂酰胆碱_PC(17:1_18:2)	GP	甘油磷脂类	PC	磷脂酰胆碱	C43H80NO8P	1172600	8045300	7601400	7017400	9061700	9946500	1284300	1257700	1269500	1135300	1025000	1257000	1321600	1033100	1174200
LIPID-P-0500	PC(16:0_20:3)	磷脂酰胆碱_PC(16:0_20:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H82NO8P	1465000	1290800	1024200	1360500	1326400	1217600	1163500	1194500	1139000	1135800	834030	1067900	1081100	932950	1115900
LIPID-P-0501	PC(17:0_20:3)	磷脂酰胆碱_PC(17:0_20:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C45H84NO8P	5756400	5867900	5841400	6998300	7322900	8272200	8577800	9791500	729500	8863100	4406200	5790400	4308600	5240400	5459100
LIPID-P-0502	PC(18:0_20:3)	磷脂酰胆碱_PC(18:0_20:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H86NO8P	2130100	283200	1024200	343300	285700	299600	2052200	2457500	1583200	244200	119000	1628200	1181200	1377900	1643900
LIPID-P-0503	PC(18:2_22:1)	磷脂酰胆碱_PC(18:2_22:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H90NO8P	123900	100790	988420	1237400	931430	992860	571290	831470	556310	819880	416900	662460	455050	437470	704640
LIPID-P-0504	PC(18:0_24:3)	磷脂酰胆碱_PC(18:0_24:3)	GP	甘油磷脂类	PC	磷脂酰胆碱	C50H94NO8P	101060	73943	277520	86125	119390	53741	90416	80664	66153	74686	119980	110550	74146	178820	104740
LIPID-P-0505	PC(14:0_24:0)	磷脂酰胆碱_PC(14:0_24:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H76NO8P	1021300	1202000	1420600	1100900	1615200	1161700	1247400	1172800	1194000	1254600	9822900	1032300	1036700	990140	951460
LIPID-P-0506	PC(15:0_20:4)	磷脂酰胆碱_PC(15:0_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C43H78NO8P	1181700	1270800	1666700	849400	1589700	1501900	2109000	1801800	2039100	2132100	2104400	1785800	1970700	2101100	1823700
LIPID-P-0507	PC(16:0_20:4)	磷脂酰胆碱_PC(16:0_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H80NO8P	3177400	3701100	3221000	2851200	3868900	3437300	3630900	3428000	3800800	3723400	3777000	3628000	3421100	4189700	3676000
LIPID-P-0508	PC(20:4_17:0)	磷脂酰胆碱_PC(20:4_17:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C45H80NO8P	1545000	2968300	2582900	2379000	3396600	3383600	4576400	4070100	4960300	4529000	5573300	5335600	5047100	5907000	5470500
LIPID-P-0509	PC(18:0_20:4)	磷脂酰胆碱_PC(18:0_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H84NO8P	1310800	1092900	1132200	1952200	1925500	1829000	1913300	1950000	1780100	1752800	1785600	1608000	1534000	1838000	1725900
LIPID-P-0510	PC(19:0_20:4)	磷脂酰胆碱_PC(19:0_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C47H86NO8P	3961200	4066700	7577700	3117700	5843200	4331500	5454400	6204500	5787100	6040400	9462700	9250900	7191600	9260500	9422500
LIPID-P-0511	PC(18:0_22:4)	磷脂酰胆碱_PC(18:0_22:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H88NO8P	2016100	1303100	1297500	1589900	1224600	1586700	1104300	1367800	1259600	1353600	1002000	9189400	7092900	1027800	9757800
LIPID-P-0512	PC(20:3_22:1)	磷脂酰胆碱_PC(20:3_22:1)	GP	甘油磷脂类	PC	磷脂酰胆碱	C50H92NO8P	161690	160510	266940	1227610	182690	203250	257110	209700	206270	226930	166540	226440	192990	180680	158920
LIPID-P-0513	PC(14:0_20:5)	磷脂酰胆碱_PC(14:0_20:5)	GP	甘油磷脂类	PC	磷脂酰胆碱	C42H74NO8P	300810	329420	584810	400600	437660	509220	706690	583030	826600	574660	569940	663190	836210	666130	626510
LIPID-P-0514	PC(15:0_20:5)	磷脂酰胆碱_PC(15:0_20:5)	GP	甘油磷脂类	PC	磷脂酰胆碱	C43H76NO8P	225770	158000	270850	165330	265360	200750	243730	300120	242580	280360	237790	273330	311860	211490	230610
LIPID-P-0515	PC(16:0_20:5)	磷脂酰胆碱_PC(16:0_20:5)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H78NO8P	2905000	3059400	2902700	2744700	3346000	2751800	2406000	2681000	2459800	2765600	2342100	2245400	2416000	2288000	2106200
LIPID-P-0516	PC(17:1_20:4)	磷脂酰胆碱_PC(17:1_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C45H80NO8P	2166500	1954500	1612900	234000	240000	2543300	2706300	2601900	2575600	2501400	1991000	1950500	1761100	2098200	1652300
LIPID-P-0517	PC(16:0_22:5)	磷脂酰胆碱_PC(16:0_22:5)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H82NO8P	949480	1153300	649550	1271600	1068700	1012600	959990	965380	991750	875800	602960	670540	744510	736400	602950
LIPID-P-0518	PC(18:0_22:5)	磷脂酰胆碱_PC(18:0_22:5)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H86NO8P	584200	4794400	3781400	6441400	4493300	6068500	5156600	5738400	4633700	5278700	4990300	5013100	3754800	4524800	5150100
LIPID-P-0519	PC(24:1_20:4)	磷脂酰胆碱_PC(24:1_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C52H94NO8P	157040	128140	392070	156580	158740	119730	123670	126840	106030	137510	269200	115110	127130	295200	114230
LIPID-P-0520	PC(14:0_22:6)	磷脂酰胆碱_PC(14:0_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C44H76NO8P	8591700	9906200	1006800	9457800	1172100	1070400	1194400	1112100	1206200	1227600	1107100	1185000	1345200	1146400	1303000
LIPID-P-0521	PC(15:1_22:5)	磷脂酰胆碱_PC(15:1_22:5)	GP	甘油磷脂类	PC	磷脂酰胆碱	C45H78NO8P	4817500	6130900	7454200	473600	7741500	752500	1086300	1056600	1193800	1065900	1282900	1229800	1422000	1239900	1219800
LIPID-P-0522	PC(16:0_22:6)	磷脂酰胆碱_PC(16:0_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H80NO8P	1495500	2052000	1713300	1731500	2053600	1819200	2196700	1999500	2258600	2155400	2462800	2389000	2289100	2564400	2445300
LIPID-P-0523	PC(22:6_17:0)	磷脂酰胆碱_PC(22:6_17:0)	GP	甘油磷脂类	PC	磷脂酰胆碱	C47H82NO8P	1230200	1827600	1875100	1526200	2017500	2320100	341100	2636000	3552500	2862300	3557200	3604100	3335500	3347100	3674200
LIPID-P-0524	PC(18:0_22:6)	磷脂酰胆碱_PC(18:0_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H84NO8P	37615000	51809000	30321000	54918000	50666000	53598000	55142000	50808000	51489000	50430000	52123000	51238000	44938000	53402000	49284000
LIPID-P-0525	PC(20:0_22:6)	磷脂酰胆碱_PC(20:0_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C50H88NO8P	2436600	127000	866530	2296700	169390	1872500	1728400	1782800	1442400	1918700	1955200	2555700	1771600	2058800	2626800
LIPID-P-0526	PC(16:1_22:6)	磷脂酰胆碱_PC(16:1_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C46H78NO8P	9625900	9858500	9268800	1025400	1194000	9506360	9754800	9610000	9230900	9288100	8801900	7769200	9373800	8390900	8188800
LIPID-P-0527	PC(18:1_22:6)	磷脂酰胆碱_PC(18:1_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H82NO8P	42548000	42958000	30922000	49589000	47402000	44093000	46598000	44884000	45370000	44166000	39524000	41026000	39596000	40569000	38165000
LIPID-P-0528	PC(20:1_22:6)	磷脂酰胆碱_PC(20:1_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C50H86NO8P	1925900	1898900	1017200	3011700	1964900	2332700	2068500	2285100	2023600	2113800	1392500	1575500	1170800	1524100	1432600
LIPID-P-0529	PC(20:4_20:4)	磷脂酰胆碱_PC(20:4_20:4)	GP	甘油磷脂类	PC	磷脂酰胆碱	C48H80NO8P	1919000	2137100	1241700	1900900	2128000	1692300	2029900	1755000	2051000	1620300	2326000	2253000	2314000	2221400	2221600
LIPID-P-0530	PC(20:2_22:6)	磷脂酰胆碱_PC(20:2_22:6)	GP	甘油磷脂类	PC	磷脂酰胆碱	C50H84NO8P	6322800	491380	554890	704990	621700	708110	608400	731900	697940	686340	640870	729690	549440	693100	674700
LIPID-P-0531	PC(0-16:0_14:0)	磷脂酰胆碱_PC(0-16:0_14:0)	GP	甘油磷脂类	PC-O	磷脂酰胆碱	C38H78NO7P	417460	456340	1645900	431630	496050	424800	319430	308150	274070	38500	26283				

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0569	PC(O-18:1_22:6)	磷脂酰胆碱_PC(O-18:1_22:6)	GP	甘油磷脂类	PC-O	磷脂酰胆碱	C48H84NO7P	2421500	3312700	10053000	3416000	3326800	3482900	3736200	2956500	4472300	3189300	4685700	3647000	5310800	4283100	3230700
LIPID-P-0574	PE(20:0_18:0)	磷脂酰乙醇胺_PE(20:0_18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H86NO8P	1003700	1005040	2007300	2977200	85504	1427700	135060	138640	184310	145300	109680	163700	135570	115160	120240
LIPID-P-0575	PE(16:1_14:0)	磷脂酰乙醇胺_PE(16:1_14:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C35H68NO8P	45987	50705	101160	32589	56645	27405	20711	33312	28918	29534	19239	14068	17089	27727	18632
LIPID-P-0576	PE(17:0_14:1)	磷脂酰乙醇胺_PE(17:0_14:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C36H70NO8P	10887	15424	43893	14962	21736	25566	22517	19453	24452	21998	10744	23407	23384	14662	
LIPID-P-0577	PE(16:1_16:0)	磷脂酰乙醇胺_PE(16:1_16:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C37H72NO8P	623100	7361600	9331500	6867300	5820200	3528200	3091900	4305500	3377000	3606300	2623900	2578500	2602300	2577800	2280100
LIPID-P-0578	PE(15:0_18:1)	磷脂酰乙醇胺_PE(15:0_18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C38H74NO8P	821740	867000	1365900	643010	921620	714210	774440	871930	741920	619060	671910	714800	700540	702180	
LIPID-P-0580	PE(17:0_18:1)	磷脂酰乙醇胺_PE(17:0_18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C40H78NO8P	722210	886970	2828100	1087400	787290	1225700	1046400	1161600	1382100	979100	960480	1259400	1187600	956110	958630
LIPID-P-0583	PE(24:0_16:1)	磷脂酰乙醇胺_PE(24:0_16:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H88NO8P	108180	91487	583910	132650	100920	94602	112660	121920	94534	130650	141810	128480	111050	136710	
LIPID-P-0585	PE(18:2_14:0)	磷脂酰乙醇胺_PE(18:2_14:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C37H70NO8P	1090700	811230	1436500	781440	920130	588490	436240	633450	562850	493630	451850	461220	516010	470300	501190
LIPID-P-0586	PE(16:1_17:1)	磷脂酰乙醇胺_PE(16:1_17:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C38H72NO8P	234260	197120	419740	136750	220580	240860	226080	309380	314490	289150	396960	385250	476740	374570	400920
LIPID-P-0587	PE(18:1_16:1)	磷脂酰乙醇胺_PE(18:1_16:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H74NO8P	79673000	6536000	86810000	71465000	67718000	67498000	83494000	96496000	78541000	83530000	120330000	147060000	150000000	135000000	140220000
LIPID-P-0588	PE(17:1_18:1)	磷脂酰乙醇胺_PE(17:1_18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C40H76NO8P	871520	832050	1238700	414120	816960	1200600	1431800	1554100	1700700	1389000	3162300	3454100	4080700	2664200	4120800
LIPID-P-0590	PE(19:0_18:2)	磷脂酰乙醇胺_PE(19:0_18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H80NO8P	780540	595840	1837200	572360	546260	857610	908440	1202600	916040	946050	1255100	1503400	1249300	1331800	1432300
LIPID-P-0592	PE(22:2_18:0)	磷脂酰乙醇胺_PE(22:2_18:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H86NO8P	426560	491410	550480	645200	370030	394080	379120	353800	401370	449390	283780	391360	305500	287180	310640
LIPID-P-0593	PE(18:1_24:1)	磷脂酰乙醇胺_PE(18:1_24:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C47H90NO8P	49493	58321	219350	60175	45747	27726	40829	49858	41473	64643	70767	48315	57061	62696	49021
LIPID-P-0598	PE(18:2_19:1)	磷脂酰乙醇胺_PE(18:2_19:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H78NO8P	1312600	1722200	1551500	903850	1601800	1542600	2112800	2301500	2959900	2326000	3229700	2893700	3395300	3871000	2702400
LIPID-P-0600	PE(17:0_22:3)	磷脂酰乙醇胺_PE(17:0_22:3)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C44H82NO8P	121880	133080	235660	96666	173300	99248	88120	88211	85790	129130	135590	204980	143040	121190	164620
LIPID-P-0601	PE(18:2_22:1)	磷脂酰乙醇胺_PE(18:2_22:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H84NO8P	1142600	1477700	4463600	1747000	1144800	931520	681980	831230	934070	895100	680590	631540	639240	562750	713520
LIPID-P-0603	PE(20:4_14:0)	磷脂酰乙醇胺_PE(20:4_14:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C39H70NO8P	471660	418440	658140	500850	515010	466130	354900	467830	345980	503750	453490	458950	327180	376290	454470
LIPID-P-0607	PE(19:0_20:4)	磷脂酰乙醇胺_PE(19:0_20:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C44H80NO8P	610160	3395900	5397500	3849300	4560800	3850400	3816600	5425900	5629900	5951900	8241100	9889500	8635500	9077000	9467200
LIPID-P-0609	PE(20:4_22:0)	磷脂酰乙醇胺_PE(20:4_22:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C44H78NO8P	246860	251210	772300	310710	201590	340620	310500	307020	434070	388330	715860	390130	386690	704630	386700
LIPID-P-0610	PE(16:1_20:4)	磷脂酰乙醇胺_PE(16:1_20:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H72NO8P	4773100	4413300	5228900	3087800	4721000	3352500	2923000	4118000	3376300	3774100	3375400	2277800	2613100	3404100	2582600
LIPID-P-0611	PE(17:0_20:5)	磷脂酰乙醇胺_PE(17:0_20:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H74NO8P	3651700	2650900	2212400	2187900	2673300	3692200	3377200	3800500	3025600	3938200	3131600	3314900	3020900	3454900	3109200
LIPID-P-0613	PE(17:0_22:5)	磷脂酰乙醇胺_PE(17:0_22:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C44H78NO8P	3315300	3648200	3385400	3353100	3763000	4057000	4624900	4441000	3920400	4074100	4607200	4064700	3487500	4475500	3526000
LIPID-P-0614	PE(18:0_22:5)	磷脂酰乙醇胺_PE(18:0_22:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H80NO8P	2895700	3746600	3775800	4146400	3421200	3966200	3762300	4295300	4560400	5060800	5881100	6617500	6209900	7212300	6460000
LIPID-P-0615	PE(18:0_24:5)	磷脂酰乙醇胺_PE(18:0_24:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C47H84NO8P	818430	512770	1016600	596290	568850	474300	497240	538670	483900	547390	632360	464850	641280	777800	576850
LIPID-P-0616	PE(24:1_20:4)	磷脂酰乙醇胺_PE(24:1_20:4)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C49H88NO8P	59852	42447	156550	44496	41049	34227	37452	43795	37816	44725	103940	49610	37043	93527	42339
LIPID-P-0617	PE(14:0_22:6)	磷脂酰乙醇胺_PE(14:0_22:6)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H70NO8P	848960	1123500	1382700	1122400	905640	1180600	973170	1171600	957570	927520	834000	1079100	1091900	1160200	911840
LIPID-P-0618	PE(15:0_22:6)	磷脂酰乙醇胺_PE(15:0_22:6)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C42H72NO8P	2566200	3379400	4388500	2567500	3306400	4130400	4636800	5358900	6104000	4833400	6957800	6691100	7028500	6414800	6067000
LIPID-P-0619	PE(20:5_18:1)	磷脂酰乙醇胺_PE(20:5_18:1)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H74NO8P	4632300	6147000	5327000	5185300	5951900	6194700	6030500	6592000	6550600	6069000	7749000	7715800	6862900	7636300	7348200
LIPID-P-0620	PE(17:0_22:6)	磷脂酰乙醇胺_PE(17:0_22:6)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C41H76NO8P	3015100	5578400	7392300	6058900	5319300	5355300	8893300	10358000	9035100	10642000	17428000	20073000	17131000	18746000	18497000
LIPID-P-0622	PE(19:0_22:6)	磷脂酰乙醇胺_PE(19:0_22:6)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C46H80NO8P	927100	1015500	2926600	870760	1117300	1100100	1477100	1833700	1842500	1965800	3323900	4528800	3482600	2904000	4153300
LIPID-P-0623	PE(22:6_20:0)	磷脂酰乙醇胺_PE(22:6_20:0)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C47H82NO8P	1488800	721160	968920	1247700	811150	989030	706820	1304800	849950	1208000	1280700	2082000	1429800	1529500	1894200
LIPID-P-0624	PE(16:1_22:6)	磷脂酰乙醇胺_PE(16:1_22:6)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C43H72NO8P	4870000	5697300	6301500	5100100	6591100	4871900	4044600	4734700	4317200	4985500	4456600	4183300	4173400	5077800	4278200
LIPID-P-0625	PE(17:1_22:6)	磷脂酰乙醇胺_PE(17:1_22:6)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C44H74NO8P	4880800	5028000	4047000	4458200	5521900	5877000	5812900	7208200	6873700	6408400	6426800	6983300	7178900	5893100	
LIPID-P-0627	PE(19:2_22:5)	磷脂酰乙醇胺_PE(19:2_22:5)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C46H78NO8P	1575600	1921900	2185900	2194300	1712800	2385500	2302700	2683500	2517100	2755100	2222600	2456100	1814000	2455100	2186500
LIPID-P-0629	PE(22:6_18:2)	磷脂酰乙醇胺_PE(22:6_18:2)	GP	甘油磷脂类	PE	磷脂酰乙醇胺	C45H74NO8P	4743000	5522900	3478600	4034000	5175100	4490500	4809900	4679800	4843100	4795100	7953000	8698100	7013400	8136500	8057200
LIPID-P-0630	PE(P-18:0_16:0)	磷脂酰乙醇胺_PE(P-18:0_16:0)	GP	甘油磷脂类	PE-P	磷脂酰乙醇胺	C39H70NO7P	465420	531390	1940200	620860	485990	409770	366040	424610	389800	445380	701410	386720	384210	705280	363590
LIPID-P-0631	PE(P-18:0_18:0)	磷脂酰乙醇胺_PE(P-18:0_18:0)	GP	甘油磷脂类	PE-P	磷脂酰乙醇胺	C41H82NO7P	217150	337130	1037800	342800	262950	262270	276040	324990	373090	385170	211220	260150	471120	204410	263090
LIPID-P-0632	PE(P-18:0_20:0)	磷脂酰乙醇胺_PE(P-18:0_20:0)	GP	甘油磷脂类	PE-P	磷脂酰乙醇胺	C43H86NO7P	87867	244230	662370	285660	175240	191080	200490	275320	321220	279200	181490	273210	685270	214390	254520
LIPID-P-0633	PE(P-20:0_20:0)	磷脂酰乙醇胺_PE(P-20:0_20:0)	GP	甘油磷脂类	PE-P	磷脂酰乙醇胺	C45H90NO7P	23073	69257	150800	75443	40851	72986	69477	79997	110700	86051	76698	107210	221070	54204	94695
LIPID-P-0636	PE(P-16:0_18:1)	磷脂酰乙醇胺_PE(P-16:0_18:1)	GP	甘油磷脂类	PE-P	磷脂酰乙醇胺	C39H76NO7P	52196	76205	296080	86162	79430	61098									

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0724	PS(17:0_22:6)	鞘脂酰基酸 PS(17:0_22:6)	GP	鞘脂酰基酸	PS	鞘脂酰基酸	C45H76NO10IP	44199	69080	172580	80198	63825	146140	132540	222680	227590	114170	207080	196130	219290	257400	256200
LIPID-P-0725	PS(18:0_22:6)	鞘脂酰基酸 PS(18:0_22:6)	GP	鞘脂酰基酸	PS	鞘脂酰基酸	C46H78NO10IP	2095900	4278200	9222400	4892700	3467300	4370200	3703400	8560400	10393000	4558700	8239700	7446900	5825100	9249500	8510900
LIPID-P-0726	PS(18:1_22:6)	鞘脂酰基酸 PS(18:1_22:6)	GP	鞘脂酰基酸	PS	鞘脂酰基酸	C46H76NO10IP	376600	849530	1564800	1014900	750760	817980	343310	921690	929360	526190	1020200	667770	600140	1072300	771820
LIPID-P-0729	SM(d18:0/14:0)	鞘脂类 SM(d18:0/14:0)	SL	鞘脂类	SM	鞘脂类	C37H77N2O6P	100080	175470	185450	190290	175050	119810	116360	106090	145740	121650	130780	111540	112060	138710	98561
LIPID-P-0730	SM(d18:0/16:0)	鞘脂类 SM(d18:0/16:0)	SL	鞘脂类	SM	鞘脂类	C39H81N2O6P	173030	222990	259570	222150	205600	225480	194800	196370	222980	212630	236520	136650	206670	229670	178280
LIPID-P-0731	SM(d18:0/17:0)	鞘脂类 SM(d18:0/17:0)	SL	鞘脂类	SM	鞘脂类	C40H83N2O6P	576870	686820	2529600	632540	651600	519110	508100	506580	593280	470950	636960	327420	462010	530530	428640
LIPID-P-0732	SM(d18:0/18:0)	鞘脂类 SM(d18:0/18:0)	SL	鞘脂类	SM	鞘脂类	C41H85N2O6P	741210	1757800	1257200	1873000	1221300	1829100	1825600	1946100	2044900	1694600	1640200	1912200	1744600	1621400	2023400
LIPID-P-0734	SM(d18:0/22:0)	鞘脂类 SM(d18:0/22:0)	SL	鞘脂类	SM	鞘脂类	C45H93N2O6P	492630	851550	332420	1060300	690770	888200	677060	820890	834120	795050	792560	819000	665350	868930	812040
LIPID-P-0735	SM(d18:1/12:0)	鞘脂类 SM(d18:1/12:0)	SL	鞘脂类	SM	鞘脂类	C35H71N2O6P	28695	47389	74379	54092	51067	28027	30198	33250	33442	26952	34151	29164	28825	35700	28060
LIPID-P-0736	SM(d18:1/14:0)	鞘脂类 SM(d18:1/14:0)	SL	鞘脂类	SM	鞘脂类	C37H75N2O6P	23547	43736	49317	45658	40975	31437	26507	38245	36709	30291	38315	26996	28863	38898	25720
LIPID-P-0737	SM(d18:1/15:0)	鞘脂类 SM(d18:1/15:0)	SL	鞘脂类	SM	鞘脂类	C38H77N2O6P	704710	1073400	1321000	894440	1006400	8661200	10117000	9456700	11972000	9627100	14924000	11672000	10502000	13984000	11302000
LIPID-P-0738	SM(d18:1/16:0)	鞘脂类 SM(d18:1/16:0)	SL	鞘脂类	SM	鞘脂类	C39H79N2O6P	2548300	3933600	6418300	3705100	3660400	3920600	4372600	3909900	4670900	3806200	6297800	3934500	4135200	5548400	3966600
LIPID-P-0739	SM(d18:1/17:0)	鞘脂类 SM(d18:1/17:0)	SL	鞘脂类	SM	鞘脂类	C40H81N2O6P	2601800	3868700	8696200	3622800	3658400	4392300	5865100	4540700	6410500	5005600	6567100	5706300	6339300	6940200	5500200
LIPID-P-0740	SM(d18:1/18:0)	鞘脂类 SM(d18:1/18:0)	SL	鞘脂类	SM	鞘脂类	C41H83N2O6P	265320	555420	1003400	568870	471510	538890	615100	538860	711860	614270	672960	627170	622380	592130	656890
LIPID-P-0741	SM(d18:1/19:0)	鞘脂类 SM(d18:1/19:0)	SL	鞘脂类	SM	鞘脂类	C42H85N2O6P	1817800	2224600	3897600	2251100	2364700	2522100	2763100	2750600	2910900	2770200	3214500	3099100	3193000	3005700	3120200
LIPID-P-0742	SM(d18:1/20:0)	鞘脂类 SM(d18:1/20:0)	SL	鞘脂类	SM	鞘脂类	C43H87N2O6P	304060	486560	586130	549470	421870	577840	486850	543590	562350	542310	621750	491600	522310	522120	504910
LIPID-P-0743	SM(d18:1/21:0)	鞘脂类 SM(d18:1/21:0)	SL	鞘脂类	SM	鞘脂类	C44H89N2O6P	569500	4907300	5389900	4918400	4830900	4368800	4739800	6441200	5516300	5428800	6572700	7460400	6942200	6244100	7207700
LIPID-P-0744	SM(d18:1/22:0)	鞘脂类 SM(d18:1/22:0)	SL	鞘脂类	SM	鞘脂类	C45H91N2O6P	774660	924680	801660	989700	791810	903580	845120	1250800	1026700	955330	1463800	1279400	1294700	1136400	1182200
LIPID-P-0745	SM(d18:1/23:0)	鞘脂类 SM(d18:1/23:0)	SL	鞘脂类	SM	鞘脂类	C46H93N2O6P	1292900	2051000	3817800	2186200	1927800	1753800	2298600	2300500	2707200	2022700	3041700	3102700	3079200	2758800	2850500
LIPID-P-0746	SM(d18:1/24:0)	鞘脂类 SM(d18:1/24:0)	SL	鞘脂类	SM	鞘脂类	C47H95N2O6P	400710	487020	738250	654600	452590	428400	45610	485050	563260	492060	955870	956180	903460	831810	851690
LIPID-P-0747	SM(d18:1/25:0)	鞘脂类 SM(d18:1/25:0)	SL	鞘脂类	SM	鞘脂类	C48H97N2O6P	1725100	2206200	2868300	2414100	2429900	1926200	2955600	2667700	3588800	2534500	2751400	3892700	3155700	2670600	3026900
LIPID-P-0748	SM(d20:0/24:1)	鞘脂类 SM(d20:0/24:1)	SL	鞘脂类	SM	鞘脂类	C49H99N2O6P	158470	206400	287450	217030	228140	209570	217380	239600	286070	2287010	343750	386070	382780	391850	406200
LIPID-P-0749	SM(d18:2/14:0)	鞘脂类 SM(d18:2/14:0)	SL	鞘脂类	SM	鞘脂类	C37H73N2O6P	54261	88453	95564	71895	88778	58077	58715	67391	61764	61415	57033	48046	46016	53333	49702
LIPID-P-0750	SM(d18:1/16:1)	鞘脂类 SM(d18:1/16:1)	SL	鞘脂类	SM	鞘脂类	C39H77N2O6P	72427	80492	161680	75275	91409	93134	89411	88023	95063	75073	109800	90753	108280	114400	90690
LIPID-P-0751	SM(d18:1/17:1)	鞘脂类 SM(d18:1/17:1)	SL	鞘脂类	SM	鞘脂类	C40H79N2O6P	72047	91670	163480	81425	104110	104600	152100	153350	159380	140350	214800	184010	144540	210500	120540
LIPID-P-0752	SM(d18:1/18:1)	鞘脂类 SM(d18:1/18:1)	SL	鞘脂类	SM	鞘脂类	C41H81N2O6P	29165	36263	102750	52524	45717	49474	42212	52719	48500	38041	69507	47813	62627	49727	44089
LIPID-P-0753	SM(d18:1/19:1)	鞘脂类 SM(d18:1/19:1)	SL	鞘脂类	SM	鞘脂类	C42H83N2O6P	24871	51462	158260	41353	45735	54391	40570	55020	64288	37179	68238	43700	65449	77542	65994
LIPID-P-0754	SM(d18:1/20:1)	鞘脂类 SM(d18:1/20:1)	SL	鞘脂类	SM	鞘脂类	C43H85N2O6P	203600	2303200	4569700	2360700	2162400	3019200	3290700	2936400	3026500	2542000	2957500	2394100	2945900	2762300	2645800
LIPID-P-0755	SM(d18:1/21:1)	鞘脂类 SM(d18:1/21:1)	SL	鞘脂类	SM	鞘脂类	C44H87N2O6P	227200	1467800	905280	1443500	1560200	1838800	1287300	1714500	1368700	1669800	1045400	1200700	860940	1104300	1142800
LIPID-P-0756	SM(d18:1/22:1)	鞘脂类 SM(d18:1/22:1)	SL	鞘脂类	SM	鞘脂类	C45H89N2O6P	3836500	3217600	1470000	4222300	3716700	4498700	3383000	3406000	3318300	3901400	2645600	2435000	2092700	2649700	2371000
LIPID-P-0757	SM(d18:1/23:1)	鞘脂类 SM(d18:1/23:1)	SL	鞘脂类	SM	鞘脂类	C46H91N2O6P	1640900	1609200	3632700	1808400	1886300	1690300	1792300	1834500	2192100	2080800	2209000	1957600	1956700	1741000	2164200
LIPID-P-0758	SM(d18:1/24:1)	鞘脂类 SM(d18:1/24:1)	SL	鞘脂类	SM	鞘脂类	C47H93N2O6P	911930	142000	2591900	1686600	1405500	1442900	1650800	1376300	1816300	1585800	1807800	1626100	1810400	1778700	1561100
LIPID-P-0759	SM(d18:1/25:1)	鞘脂类 SM(d18:1/25:1)	SL	鞘脂类	SM	鞘脂类	C48H95N2O6P	148930	291920	886410	263580	264230	242140	347020	322710	391350	282050	369010	369100	406000	368550	295790
LIPID-P-0760	SM(d18:1/26:1)	鞘脂类 SM(d18:1/26:1)	SL	鞘脂类	SM	鞘脂类	C49H97N2O6P	119950	174520	341010	173810	167850	152870	178720	146820	214900	170550	212960	161950	184850	197090	157940
LIPID-P-0761	SM(d18:2/18:1)	鞘脂类 SM(d18:2/18:1)	SL	鞘脂类	SM	鞘脂类	C41H79N2O6P	159770	341690	398140	294760	291730	357450	475540	468680	454210	390850	690330	560550	588620	637390	451500
LIPID-P-0762	SM(d18:2/20:1)	鞘脂类 SM(d18:2/20:1)	SL	鞘脂类	SM	鞘脂类	C43H83N2O6P	131960	210740	239600	279780	170110	252770	279050	345600	302550	252050	302150	180390	253160	299320	253810
LIPID-P-0763	SM(d18:2/22:1)	鞘脂类 SM(d18:2/22:1)	SL	鞘脂类	SM	鞘脂类	C45H87N2O6P	5061300	9046600	6463500	9379600	8471000	8408200	7819700	9664400	7052900	8477800	9252300	7043300	9288000	7673800	
LIPID-P-0764	SM(d18:2/23:1)	鞘脂类 SM(d18:2/23:1)	SL	鞘脂类	SM	鞘脂类	C46H89N2O6P	501670	534270	232000	774360	650800	858010	856590	527400	834640	789690	684030	777170	1255700	767680	789670
LIPID-P-0765	SM(d18:2/24:1)	鞘脂类 SM(d18:2/24:1)	SL	鞘脂类	SM	鞘脂类	C47H91N2O6P	118340	111520	135990	152450	140280	168210	165490	158270	126020	320360	194860	208590	269780	204820	
LIPID-P-0766	SM(d18:2/25:1)	鞘脂类 SM(d18:2/25:1)	SL	鞘脂类	SM	鞘脂类	C48H93N2O6P	46290	105970	288470	104240	97895	105890	199730	95289	153210	113210	117660	158850	304480	132030	166000
LIPID-P-0767	SM(d18:2/26:1)	鞘脂类 SM(d18:2/26:1)	SL	鞘脂类	SM	鞘脂类	C49H95N2O6P	44591	77968	82395	131740	65424	72689	91379	74323	79144	72123	91786	71209	88958	78587	78620
LIPID-P-0768	SM(d18:2/24:3)	鞘脂类 SM(d18:2/24:3)	SL	鞘脂类	SM	鞘脂类	C47H87N2O6P	7245500	7252000	3735300	6209600	7518100	5312800	6618100	6464600	6439100	5521100	7060600	7998200	7972700	7054900	7139600

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0832	TG(14:0_15:0_16:1)	甘油三酯_TG(14:0_15:0_16:1)	GL	甘油酯类	TG	甘油三酯	C48H96O6	146990	217250	165550	95656	131320	163790	167900	205830	81589	145730	128770	276400	111300	93378	128410
LIPID-P-0833	TG(12:0_16:0_18:1)	甘油三酯_TG(12:0_16:0_18:1)	GL	甘油酯类	TG	甘油三酯	C49H92O6	266030	1701500	1230700	2577500	1814800	1969000	1329400	1678700	1054800	2120700	350390	494840	260300	550510	596810
LIPID-P-0834	TG(14:0_16:0_16:1)	甘油三酯_TG(14:0_16:0_16:1)	GL	甘油酯类	TG	甘油三酯	C49H92O6	1183600	6060300	2858100	7480600	6175500	5952200	4222900	4233200	3142200	6875100	1047700	1148300	433520	884480	1276300
LIPID-P-0835	TG(15:0_16:0_16:1)	甘油三酯_TG(15:0_16:0_16:1)	GL	甘油酯类	TG	甘油三酯	C50H94O6	2298700	1250700	961620	944440	1378700	1763000	899540	902650	843140	1544500	388910	908800	266110	499910	507600
LIPID-P-0836	TG(14:0_15:0_18:1)	甘油三酯_TG(14:0_15:0_18:1)	GL	甘油酯类	TG	甘油三酯	C50H94O6	489460	391340	333750	436840	361520	516130	334780	348140	288590	419510	124900	252810	98338	151930	189620
LIPID-P-0837	TG(16:0_16:0_16:1)	甘油三酯_TG(16:0_16:0_16:1)	GL	甘油酯类	TG	甘油三酯	C51H96O6	12504000	88082000	31664000	82801000	89535000	88707000	46124000	49694000	37250000	93342000	18803000	10336000	5271800	17302000	12987000
LIPID-P-0838	TG(14:0_16:0_18:1)	甘油三酯_TG(14:0_16:0_18:1)	GL	甘油酯类	TG	甘油三酯	C51H96O6	40258000	18127000	10823000	31472000	29705000	23388000	15835000	21799000	11007000	27808000	6263100	4664800	1580300	5622900	6054400
LIPID-P-0841	TG(15:0_16:0_18:1)	甘油三酯_TG(15:0_16:0_18:1)	GL	甘油酯类	TG	甘油三酯	C52H98O6	6561700	5604600	3464500	5592200	5972400	6543900	4482700	4639400	4152500	8757300	1653900	1770500	552050	1657300	1716700
LIPID-P-0843	TG(16:0_16:0_18:1)	甘油三酯_TG(16:0_16:0_18:1)	GL	甘油酯类	TG	甘油三酯	C53H100O6	48694000	48952000	20671000	60291000	49588000	64076000	21255000	36312000	24062000	64965000	12278000	10111000	4141900	11853000	11615000
LIPID-P-0845	TG(16:0_17:0_18:1)	甘油三酯_TG(16:0_17:0_18:1)	GL	甘油酯类	TG	甘油三酯	C54H102O6	15883000	10341000	4227300	13490000	12594000	23881000	12298000	11739000	9095800	27885000	2798500	2238700	660780	3213800	2646200
LIPID-P-0847	TG(16:0_18:0_18:1)	甘油三酯_TG(16:0_18:0_18:1)	GL	甘油酯类	TG	甘油三酯	C55H104O6	80051000	53274000	23016000	106160000	93384000	95473000	52063000	83333000	37845000	82686000	14418000	12636000	5202800	15678000	20386000
LIPID-P-0848	TG(16:0_16:1_20:0)	甘油三酯_TG(16:0_16:1_20:0)	GL	甘油酯类	TG	甘油三酯	C55H104O6	3146440	423440	190680	1721300	860780	1478700	573680	1448500	396210	2129100	148400	122200	14797	136180	182730
LIPID-P-0849	TG(17:0_18:0_18:1)	甘油三酯_TG(17:0_18:0_18:1)	GL	甘油酯类	TG	甘油三酯	C56H106O6	257910	170610	71566	304290	324270	296600	311380	315730	157980	515820	63951	67206	18567	76890	95190
LIPID-P-0850	TG(17:0_17:0_19:1)	甘油三酯_TG(17:0_17:0_19:1)	GL	甘油酯类	TG	甘油三酯	C56H106O6	121350	80655	25833	88143	101470	139440	86677	104690	53774	171340	12775	18890	7092.5	21039	25253
LIPID-P-0851	TG(16:0_18:0_20:1)	甘油三酯_TG(16:0_18:0_20:1)	GL	甘油酯类	TG	甘油三酯	C57H108O6	1382900	778680	354770	1953400	1189100	1338900	950010	1391900	555670	2131300	209710	259130	172760	202290	311480
LIPID-P-0852	TG(18:0_18:0_18:1)	甘油三酯_TG(18:0_18:0_18:1)	GL	甘油酯类	TG	甘油三酯	C57H108O6	3932800	4772000	1677500	7684500	4312100	6083600	4652400	5656300	4890300	10895000	1219800	2483300	1842700	1117900	1945700
LIPID-P-0853	TG(16:0_20:0_18:1)	甘油三酯_TG(16:0_20:0_18:1)	GL	甘油酯类	TG	甘油三酯	C57H108O6	24866000	4955800	1560400	24273000	8270400	25408000	7892900	15896000	6172200	27692000	2041400	1843900	325490	2010200	3093400
LIPID-P-0856	TG(18:0_18:1_20:0)	甘油三酯_TG(18:0_18:1_20:0)	GL	甘油酯类	TG	甘油三酯	C58H112O6	204460	89578	35092	158380	76515	219740	95533	143160	81176	354020	24377	29244	12298	28655	51307
LIPID-P-0858	TG(16:0_18:1_22:0)	甘油三酯_TG(16:0_18:1_22:0)	GL	甘油酯类	TG	甘油三酯	C59H112O6	774980	141470	48481	483760	215660	582040	119920	236720	121930	451260	53917	74694	22874	59683	61496
LIPID-P-0862	TG(16:0_23:0_18:1)	甘油三酯_TG(16:0_23:0_18:1)	GL	甘油酯类	TG	甘油三酯	C60H114O6	30276	9	11980	17289	12069	10111	12269	8010.6	9048.4	16018	5736.2	10360	9	9	51348
LIPID-P-0866	TG(16:0_24:0_18:1)	甘油三酯_TG(16:0_24:0_18:1)	GL	甘油酯类	TG	甘油三酯	C61H116O6	140100	31329	21305	109460	51613	64284	23221	50012	17498	57149	11905	11445	4280.3	9005	18161
LIPID-P-0878	TG(8:0_16:1_18:1)	甘油三酯_TG(8:0_16:1_18:1)	GL	甘油酯类	TG	甘油三酯	C45H82O6	55351	30406	55450	113700	35930	132790	85533	62627	70388	96653	20312	12791	18049	37575	14725
LIPID-P-0880	TG(8:0_16:0_18:2)	甘油三酯_TG(8:0_16:0_18:2)	GL	甘油酯类	TG	甘油三酯	C45H82O6	55802	18988	44397	51594	31703	87129	124990	69944	90712	131490	110010	69029	51535	125890	93807
LIPID-P-0882	TG(9:0_16:0_18:2)	甘油三酯_TG(9:0_16:0_18:2)	GL	甘油酯类	TG	甘油三酯	C46H84O6	74529	19599	6259.4	23019	14379	69363	75298	62055	70153	100830	27312	70000	8252.7	42075	42120
LIPID-P-0886	TG(12:0_14:0_18:2)	甘油三酯_TG(12:0_14:0_18:2)	GL	甘油酯类	TG	甘油三酯	C47H86O6	133260	93058	200120	66680	122520	85568	58310	73600	85886	96212	45953	120680	55466	62209	72566
LIPID-P-0887	TG(14:0_14:1_18:1)	甘油三酯_TG(14:0_14:1_18:1)	GL	甘油酯类	TG	甘油三酯	C47H86O6	193840	159810	262620	156580	174860	156000	100160	144820	118350	102900	70636	234210	53591	134640	80038
LIPID-P-0888	TG(10:0_16:0_18:2)	甘油三酯_TG(10:0_16:0_18:2)	GL	甘油酯类	TG	甘油三酯	C47H86O6	136230	77216	226830	109100	96223	173890	270570	153520	278820	206810	128520	161410	91871	155030	199630
LIPID-P-0893	TG(10:0_16:0_18:2)	甘油三酯_TG(10:0_16:0_18:2)	GL	甘油酯类	TG	甘油三酯	C49H90O6	494610	414680	897910	386600	364600	645540	523930	410220	410870	531950	384500	460210	241530	373460	552780
LIPID-P-0894	TG(14:0_14:1_18:1)	甘油三酯_TG(14:0_14:1_18:1)	GL	甘油酯类	TG	甘油三酯	C49H90O6	1352300	1117800	1727000	1267000	1173500	1341200	909630	997070	742130	1149800	377630	322400	222190	391190	395450
LIPID-P-0895	TG(14:1_16:0_16:1)	甘油三酯_TG(14:1_16:0_16:1)	GL	甘油酯类	TG	甘油三酯	C49H90O6	2609500	1209200	2816200	1241200	2068600	2042100	791930	1335600	694420	1346100	229520	528650	154390	418850	332710
LIPID-P-0897	TG(14:0_16:1_17:1)	甘油三酯_TG(14:0_16:1_17:1)	GL	甘油酯类	TG	甘油三酯	C50H92O6	342730	172800	178020	236560	237720	340190	218570	195200	164100	377720	110040	210160	55537	96628	96701
LIPID-P-0898	TG(14:0_15:0_18:2)	甘油三酯_TG(14:0_15:0_18:2)	GL	甘油酯类	TG	甘油三酯	C50H92O6	132580	88914	154380	54143	70819	146950	135010	133300	113250	235270	79855	137160	66118	90233	173140
LIPID-P-0899	TG(15:0_16:1_16:1)	甘油三酯_TG(15:0_16:1_16:1)	GL	甘油酯类	TG	甘油三酯	C50H92O6	643640	260060	337410	208330	386190	391340	308820	317430	266680	548430	156980	332980	86754	159120	224470
LIPID-P-0901	TG(16:0_16:1_16:1)	甘油三酯_TG(16:0_16:1_16:1)	GL	甘油酯类	TG	甘油三酯	C51H94O6	6196000	33827000	31052000	45412000	43392000	56117000	31278000	42653000	18278000	50325000	12345000	7992300	4482900	11635000	13557000
LIPID-P-0902	TG(14:0_16:0_18:2)	甘油三酯_TG(14:0_16:0_18:2)	GL	甘油酯类	TG	甘油三酯	C51H94O6	847300	482680	559800	605550	414980	921850	549340	576220	447060	933790	416030	250950	1692900	348730	527000
LIPID-P-0904	TG(14:0_16:1_18:1)	甘油三酯_TG(14:0_16:1_18:1)	GL	甘油酯类	TG	甘油三酯	C51H94O6	3006900	1725500	1608900	2423400	2300400	5380600	1390200	2486200	1408000	3231000	8529600	563480	280990	623230	631220
LIPID-P-0906	TG(16:0_16:1_17:1)	甘油三酯_TG(16:0_16:1_17:1)	GL	甘油酯类	TG	甘油三酯	C52H96O6	5849200	3456300	1627600	3220700	4144600	5803600	3965900	3433600	1649400	5185500	1221900	903810	272800	1069200	812440
LIPID-P-0907	TG(15:0_16:0_18:2)	甘油三酯_TG(15:0_16:0_18:2)	GL	甘油酯类	TG	甘油三酯	C52H96O6	1281900	854850	888480	600920	1003200	1284100	1189700	1254900	883930	1716900	1002700	1174400	400470	1293500	1765700
LIPID-P-0908	TG(15:0_16:1_18:1)	甘油三酯_TG(15:0_16:1_18:1)	GL	甘油酯类	TG	甘油三酯	C52H96O6	5499200	3219800	2399800	2742700	4686200	5652300	3519200	3392900	2682100	5209500	1860800	1728400	683550	2176500	2258400
LIPID-P-0910	TG(16:0_16:1_18:1)	甘油三酯_TG(16:0_16:1_18:1)	GL	甘油酯类	TG	甘油三酯	C53H98O6	14568000	88947000	61831000	117490000	108400000	186280000	110620000	98169000	61077000	180030000	35246000	25417000	13375000	27346000	38111000
LIPID-P-0911	TG(14:0_18:0_18:2)	甘油三酯_TG(14:0_18:0_18:2)	GL	甘油酯类	TG	甘油三酯	C53H98O6	1739000	1662200	5630700	1662200	1336600	1921100	1302800	1344500	7024800	1750700	355600	185150	86630	282980	282340
LIPID-P-0913	TG(15:0_17:0_19:2)	甘油三酯_TG(15:0_17:0_19:2)	GL	甘油酯类	TG	甘油三酯	C54H100O6	1347700	1313800	576060	1722800	1157100	2127100	1506600	1351700	1489100	2411900	552840	522740	163920	811750	571070
LIPID-P-0914	TG(16:0_17:1_18:1)	甘油三酯_TG(16:0_17:1_18:1)	GL	甘油酯类	TG	甘油三酯	C54H100O6	4303600	3143500	1001700	4090600	3216900	4876400	3437600	3842800	2999000	5435200	1145500	664570	210870	1126000	964560
LIPID-P-0915	TG(16:0_18:1_18:1)	甘油三酯_TG(16:0_18:1_18:1)	GL	甘油酯类	TG	甘油三酯	C55H102O6	40718000	31925000	19281000	52795000	37717000	53468000	32910000	35427000	28059000	53343000	20648000	84245000	8144800	18870000	20785000
LIPID-P-0917	TG(16:0_16:																					

Index	Compounds	物质	Class I	物质一级分类	Class II	物质二级分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-0962	TG(10.0_18.1_18.2)	甘油三酯_TG(10.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C49H88O6	193820	142770	344860	187460	205360	226890	258530	205410	175640	258940	167700	133650	64569	105370	73383
LIPID-P-0965	TG(14.1_16.1_18.1)	甘油三酯_TG(14.1_16.1_18.1)	GL	甘油酯类	TG	甘油三酯	C51H92O6	335800	212010	477650	250260	226030	444780	173840	223810	191600	379050	118450	920620	32030	155810	136700
LIPID-P-0967	TG(14.0_16.1_18.2)	甘油三酯_TG(14.0_16.1_18.2)	GL	甘油酯类	TG	甘油三酯	C51H92O6	410400	222880	324140	183060	321490	534700	315250	327190	227990	562800	234180	113720	461520	224520	255700
LIPID-P-0969	TG(16.0_14.1_18.2)	甘油三酯_TG(16.0_14.1_18.2)	GL	甘油酯类	TG	甘油三酯	C51H92O6	394900	185100	492680	205430	254420	417100	178530	250500	201310	452410	197190	172130	839920	229420	246760
LIPID-P-0970	TG(16.1_16.1_17.1)	甘油三酯_TG(16.1_16.1_17.1)	GL	甘油酯类	TG	甘油三酯	C52H94O6	258900	151730	160900	149030	201920	377360	166630	237490	140220	333010	107120	929310	311460	121330	106320
LIPID-P-0971	TG(15.0_16.1_18.2)	甘油三酯_TG(15.0_16.1_18.2)	GL	甘油酯类	TG	甘油三酯	C52H94O6	112710	517150	909600	347150	945250	124930	955740	129400	799110	155500	74720	622590	307330	110270	130740
LIPID-P-0972	TG(14.0_17.1_18.2)	甘油三酯_TG(14.0_17.1_18.2)	GL	甘油酯类	TG	甘油三酯	C52H94O6	174670	89964	158310	106530	173380	336140	295320	282280	193500	423560	143750	77520	18132	183840	208010
LIPID-P-0973	TG(16.1_16.1_18.1)	甘油三酯_TG(16.1_16.1_18.1)	GL	甘油酯类	TG	甘油三酯	C53H96O6	11755000	7536900	6699900	8350100	9450800	14599000	8555200	9381700	5375000	15265000	3163400	2411600	1084900	2919100	3435500
LIPID-P-0974	TG(16.0_16.1_18.2)	甘油三酯_TG(16.0_16.1_18.2)	GL	甘油酯类	TG	甘油三酯	C53H96O6	35155000	20370000	19543000	20971000	28596000	38806000	19657000	22145000	14976000	35688000	9495000	6025000	3662900	11732000	10572000
LIPID-P-0977	TG(16.1_17.1_18.1)	甘油三酯_TG(16.1_17.1_18.1)	GL	甘油酯类	TG	甘油三酯	C54H98O6	11277000	899630	444220	1104600	1031000	1601800	1000000	963500	751790	2281700	401220	188200	756750	379660	361670
LIPID-P-0978	TG(15.0_18.1_18.2)	甘油三酯_TG(15.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C54H98O6	4995300	319780	380210	302840	460220	814700	909800	689370	702230	959470	863410	574850	206490	747900	902810
LIPID-P-0979	TG(16.0_17.1_18.2)	甘油三酯_TG(16.0_17.1_18.2)	GL	甘油酯类	TG	甘油三酯	C54H98O6	854730	481480	384900	520450	599460	1257600	1068800	1258700	743860	1300500	786480	577710	225990	1034100	890420
LIPID-P-0981	TG(16.1_18.1_18.1)	甘油三酯_TG(16.1_18.1_18.1)	GL	甘油酯类	TG	甘油三酯	C55H100O6	34909000	26889000	18182000	42102000	35848000	53350000	32353000	41890000	29372000	50436000	14986000	9986500	3329300	17215000	12321000
LIPID-P-0982	TG(16.0_18.1_18.2)	甘油三酯_TG(16.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C55H100O6	29045000	22964000	17825000	23151000	23007000	39263000	35131000	37501000	26093000	35782000	30610000	26746000	15234000	37271000	36927000
LIPID-P-0983	TG(14.0_18.1_20.2)	甘油三酯_TG(14.0_18.1_20.2)	GL	甘油酯类	TG	甘油三酯	C55H100O6	1911600	1042700	108510	147020	131570	202460	131500	186880	105650	194580	567140	618120	133670	670510	789050
LIPID-P-0984	TG(17.1_18.1_18.1)	甘油三酯_TG(17.1_18.1_18.1)	GL	甘油酯类	TG	甘油三酯	C56H102O6	5027700	4140600	2630700	7265400	5380900	8498500	7282600	6321200	3809800	9712700	2719500	1222800	512480	2566100	2512800
LIPID-P-0987	TG(17.0_18.1_18.2)	甘油三酯_TG(17.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C56H102O6	462810	376570	613810	379860	51140	1294600	1172200	923450	925380	1758500	976220	729680	235660	1232300	1162500
LIPID-P-0988	TG(18.1_18.1_18.1)	甘油三酯_TG(18.1_18.1_18.1)	GL	甘油酯类	TG	甘油三酯	C57H104O6	72003000	71600000	56553000	93331000	92251000	84878000	73176000	75337000	63042000	91200000	38132000	29177000	11284000	44965000	3993000
LIPID-P-0989	TG(18.0_18.1_18.2)	甘油三酯_TG(18.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C57H104O6	3956700	2584000	1824800	2703400	2856500	5575600	4293800	4279200	2867600	8012700	3097900	1997700	771890	3238400	4024500
LIPID-P-0992	TG(16.0_18.1_20.2)	甘油三酯_TG(16.0_18.1_20.2)	GL	甘油酯类	TG	甘油三酯	C57H104O6	5677700	2445000	2277800	4577400	3956100	7079400	3467600	2606000	2564100	7111200	1315000	1205300	216030	1337500	1262900
LIPID-P-0993	TG(17.1_18.1_18.1)	甘油三酯_TG(17.1_18.1_18.1)	GL	甘油酯类	TG	甘油三酯	C58H106O6	1957000	839030	103210	232820	188000	396430	199550	204620	130930	414040	38550	276060	56284	42970	436220
LIPID-P-0996	TG(18.1_18.1_20.1)	甘油三酯_TG(18.1_18.1_20.1)	GL	甘油酯类	TG	甘油三酯	C58H106O6	941740	583490	734280	1415400	1059700	1692900	1193000	1121800	682620	2174800	188420	980750	299550	241350	219510
LIPID-P-0998	TG(18.1_18.2_20.0)	甘油三酯_TG(18.1_18.2_20.0)	GL	甘油酯类	TG	甘油三酯	C59H108O6	10776000	12616000	8221200	30768000	15528000	21062000	13718000	11193000	11103000	24842000	2618200	2573000	534730	3517500	3712200
LIPID-P-0999	TG(18.1_18.1_20.1)	甘油三酯_TG(18.1_18.1_20.1)	GL	甘油酯类	TG	甘油三酯	C59H108O6	5401400	7131300	5293600	16983000	9249500	11507000	8175800	8350100	4823000	13779000	1537100	1396100	301780	2070300	2623000
LIPID-P-1001	TG(20.1_18.2_18.0)	甘油三酯_TG(20.1_18.2_18.0)	GL	甘油酯类	TG	甘油三酯	C59H108O6	2059100	1492200	1704200	2852700	1850400	431480	237870	259680	123340	473070	84004	906860	271290	90060	133510
LIPID-P-1002	TG(16.1_18.1_22.1)	甘油三酯_TG(16.1_18.1_22.1)	GL	甘油酯类	TG	甘油三酯	C59H108O6	348400	859180	73500	1985400	130140	281380	104630	148770	735450	298110	282860	226910	30360	30110	321350
LIPID-P-1005	TG(21.0_18.1_18.2)	甘油三酯_TG(21.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C60H110O6	1032500	357280	680490	757990	696860	1043900	757460	87010	51540	226300	116810	92362	22629	131650	164520
LIPID-P-1006	TG(16.1_17.1_24.1)	甘油三酯_TG(16.1_17.1_24.1)	GL	甘油酯类	TG	甘油三酯	C60H110O6	94882	12767	19502	51162	36567	76425	39377	46158	25105	155930	76464	38829	16906	86548	45656
LIPID-P-1007	TG(16.1_18.1_24.1)	甘油三酯_TG(16.1_18.1_24.1)	GL	甘油酯类	TG	甘油三酯	C61H112O6	316120	70262	157910	135260	122290	196090	94130	10840	53046	226120	15168	17499	95314	20045	26227
LIPID-P-1009	TG(18.1_18.1_21.1)	甘油三酯_TG(18.1_18.1_21.1)	GL	甘油酯类	TG	甘油三酯	C61H112O6	537720	1446100	1917700	4951700	1595800	4977100	2619200	284000	152900	910120	339140	336320	95178	527230	635850
LIPID-P-1010	TG(18.1_18.2_22.0)	甘油三酯_TG(18.1_18.2_22.0)	GL	甘油酯类	TG	甘油三酯	C61H112O6	326500	90169	230220	194630	17430	373290	147830	173920	111330	594880	156160	134280	42368	138130	225110
LIPID-P-1011	TG(18.1_20.1_20.1)	甘油三酯_TG(18.1_20.1_20.1)	GL	甘油酯类	TG	甘油三酯	C61H112O6	3992200	3430500	5052200	10175000	4130300	9413500	4176000	3772000	2658300	1274600	450980	470200	81305	677800	664270
LIPID-P-1017	TG(18.1_18.1_24.1)	甘油三酯_TG(18.1_18.1_24.1)	GL	甘油酯类	TG	甘油三酯	C63H116O6	138500	80294	150050	162270	88718	112080	68670	80948	45097	230480	11623	17295	12356	19184	24637
LIPID-P-1019	TG(18.1_20.1_22.1)	甘油三酯_TG(18.1_20.1_22.1)	GL	甘油酯类	TG	甘油三酯	C63H116O6	168580	51746	96447	148500	89926	196550	79810	104930	39472	352880	81869	17048	9	12412	19197
LIPID-P-1020	TG(24.0_18.1_18.2)	甘油三酯_TG(24.0_18.1_18.2)	GL	甘油酯类	TG	甘油三酯	C63H116O6	96359	64336	18411	10525	64502	13739	9941	7118	7068.3	22244	11723	17506	2978.2	11574	25599
LIPID-P-1023	TG(18.1_18.1_26.1)	甘油三酯_TG(18.1_18.1_26.1)	GL	甘油酯类	TG	甘油三酯	C65H120O6	18378	7118.4	21055	17984	12489	14238	9265.2	9792.5	4583.9	25288	9	9	9	9	9
LIPID-P-1027	TG(14.1_16.1_16.2)	甘油三酯_TG(14.1_16.1_16.2)	GL	甘油酯类	TG	甘油三酯	C49H88O6	24344	21684	175360	52532	38823	55297	61838	56272	31448	67545	51742	43296	17025	55934	42653
LIPID-P-1029	TG(16.1_16.1_16.2)	甘油三酯_TG(16.1_16.1_16.2)	GL	甘油酯类	TG	甘油三酯	C51H90O6	335370	144190	275550	225680	316100	455630	234610	433620	211270	575000	166690	171030	70935	219460	257930
LIPID-P-1030	TG(14.1_16.1_18.2)	甘油三酯_TG(14.1_16.1_18.2)	GL	甘油酯类	TG	甘油三酯	C51H90O6	682730	565880	173350	47580	765340	728770	447830	61040	369020	908920	425950	431100	266190	526630	73230
LIPID-P-1031	TG(12.0_18.2_18.2)	甘油三酯_TG(12.0_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C51H90O6	90083	62343	309320	80619	103970	171200	97638	287290	159350	160500	270320	328380	133410	333820	510760
LIPID-P-1032	TG(12.0_18.1_18.3)	甘油三酯_TG(12.0_18.1_18.3)	GL	甘油酯类	TG	甘油三酯	C51H90O6	135840	152600	647570	178840	180390	329200	180520	301950	117580	314030	2				

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HF1	HF2	HF3	HF4	HF5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-1082	TG(12.0_18.2_18.3)	甘油三酯_TG(12.0_18.2_18.3)	GL	甘油酯类	TG	甘油三酯	C51H88O6	34621	24019	215180	22717	44842	188409	52995	83974	34403	64023	94954	109660	68012	137260	106920
LIPID-P-1083	TG(14.1_16.1_18.3)	甘油三酯_TG(14.1_16.1_18.3)	GL	甘油酯类	TG	甘油三酯	C51H88O6	52886	51588	163360	52204	90986	178749	53271	71949	61053	186220	67053	57624	56257	95120	90688
LIPID-P-1086	TG(16.1_16.1_18.3)	甘油三酯_TG(16.1_16.1_18.3)	GL	甘油酯类	TG	甘油三酯	C53H92O6	177010	1491700	2169500	1257300	1775500	2758200	1371100	2191600	1303800	3561400	1723900	893570	676550	1940800	1439100
LIPID-P-1087	TG(14.0_18.2_18.3)	甘油三酯_TG(14.0_18.2_18.3)	GL	甘油酯类	TG	甘油三酯	C53H92O6	60960	486650	1399200	459810	653780	1098000	762200	1269100	747510	1680300	1936700	1215500	693490	2401900	1836200
LIPID-P-1088	TG(14.1_18.2_18.2)	甘油三酯_TG(14.1_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C53H92O6	472880	373200	1377200	372110	522770	602220	445670	664110	508130	838070	924250	512200	355810	964220	611950
LIPID-P-1089	TG(12.0_16.0_22.5)	甘油三酯_TG(12.0_16.0_22.5)	GL	甘油酯类	TG	甘油三酯	C53H92O6	398280	316770	692170	304860	369750	983270	519710	660890	594990	1506600	998520	631240	285950	1135500	1186700
LIPID-P-1090	TG(14.0_16.1_20.4)	甘油三酯_TG(14.0_16.1_20.4)	GL	甘油酯类	TG	甘油三酯	C53H92O6	1125500	992620	2049200	1111400	1278000	1610500	1009300	907760	927250	1677400	614920	542130	142960	703510	839040
LIPID-P-1091	TG(15.0_16.1_20.4)	甘油三酯_TG(15.0_16.1_20.4)	GL	甘油酯类	TG	甘油三酯	C54H94O6	117880	58434	99446	60488	69559	224130	177270	143370	130530	276900	142470	61828	40436	162660	201520
LIPID-P-1092	TG(15.0_18.2_18.3)	甘油三酯_TG(15.0_18.2_18.3)	GL	甘油酯类	TG	甘油三酯	C54H94O6	73135	41265	161100	56866	69255	189360	182560	240210	198720	330150	384640	183310	92377	368120	436160
LIPID-P-1094	TG(16.1_17.1_18.3)	甘油三酯_TG(16.1_17.1_18.3)	GL	甘油酯类	TG	甘油三酯	C54H94O6	95738	62194	151790	38994	126260	169340	168250	285130	176150	400640	315880	221720	71007	429660	441090
LIPID-P-1095	TG(16.1_18.2_18.2)	甘油三酯_TG(16.1_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C55H96O6	22147000	16411000	29443000	15290000	26126000	65183000	50151000	46552000	36177000	76761000	102940000	63559000	19390000	120180000	93027000
LIPID-P-1096	TG(16.0_18.2_18.3)	甘油三酯_TG(16.0_18.2_18.3)	GL	甘油酯类	TG	甘油三酯	C55H96O6	9316600	7324000	14642000	6456400	12163000	19149000	18447000	16549000	12898000	29093000	29828000	22608000	7056800	28687000	38873000
LIPID-P-1097	TG(16.1_18.1_18.3)	甘油三酯_TG(16.1_18.1_18.3)	GL	甘油酯类	TG	甘油三酯	C55H96O6	18822000	15294000	26729000	12584000	19222000	42163000	33772000	36067000	26242000	48641000	45115000	37262000	11633000	60097000	58763000
LIPID-P-1098	TG(16.0_16.1_20.4)	甘油三酯_TG(16.0_16.1_20.4)	GL	甘油酯类	TG	甘油三酯	C55H96O6	19200000	13070000	27481000	8679800	16442000	24841000	12423000	14102000	8069600	24466000	5948300	5916700	2382100	7970100	9774300
LIPID-P-1099	TG(14.0_16.0_22.5)	甘油三酯_TG(14.0_16.0_22.5)	GL	甘油酯类	TG	甘油三酯	C55H96O6	175580	141030	447400	123380	266380	282330	245350	347610	192130	499250	726200	407650	137420	748650	720960
LIPID-P-1100	TG(16.0_17.1_20.4)	甘油三酯_TG(16.0_17.1_20.4)	GL	甘油酯类	TG	甘油三酯	C56H98O6	285250	179840	377730	177110	308420	462120	285320	320190	212150	578910	243280	146870	70484	309900	322890
LIPID-P-1101	TG(17.1_18.2_18.2)	甘油三酯_TG(17.1_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C56H98O6	688330	574990	1612400	460840	1060700	2562500	2359600	2212800	1770900	3385300	4000300	2914700	399820	4804100	5134700
LIPID-P-1102	TG(15.0_18.1_20.4)	甘油三酯_TG(15.0_18.1_20.4)	GL	甘油酯类	TG	甘油三酯	C56H98O6	1129500	856830	1211700	715810	1252800	1832900	1445100	1312100	1060700	2217400	1250700	851810	433780	1265600	1120800
LIPID-P-1104	TG(18.1_18.2_18.2)	甘油三酯_TG(18.1_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C57H100O6	742500	5697100	8161200	4908700	7184400	11276000	17014000	14650000	10883000	14514000	27731000	18358000	7705300	21697000	25813000
LIPID-P-1105	TG(16.0_18.1_20.4)	甘油三酯_TG(16.0_18.1_20.4)	GL	甘油酯类	TG	甘油三酯	C57H100O6	12267000	84530000	102830000	74103000	83270000	138880000	96870000	81174000	104970000	190160000	80285000	65099000	26373000	87233000	73144000
LIPID-P-1106	TG(16.1_18.1_20.3)	甘油三酯_TG(16.1_18.1_20.3)	GL	甘油酯类	TG	甘油三酯	C57H100O6	8418000	6912800	10389000	6092300	10277000	15291000	2711800	13008000	7326400	19924000	6090600	3837100	661670	5377000	5226400
LIPID-P-1107	TG(16.0_17.0_22.5)	甘油三酯_TG(16.0_17.0_22.5)	GL	甘油酯类	TG	甘油三酯	C58H102O6	375170	173740	515220	187480	356040	458630	275350	3900520	281250	696550	368240	222900	86319	160760	326100
LIPID-P-1108	TG(17.0_18.1_20.4)	甘油三酯_TG(17.0_18.1_20.4)	GL	甘油酯类	TG	甘油三酯	C58H102O6	924420	769740	1423000	643960	956430	1760700	1331100	1362100	1124400	2433900	1075000	1081800	472990	1143600	1150500
LIPID-P-1109	TG(19.1_18.2_18.2)	甘油三酯_TG(19.1_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C58H102O6	572720	408050	1198100	405940	628530	902890	960110	725100	1006100	1098800	1140200	381170	1669000	1437700	
LIPID-P-1111	TG(18.1_18.2_20.2)	甘油三酯_TG(18.1_18.2_20.2)	GL	甘油酯类	TG	甘油三酯	C59H104O6	7820300	6473600	14129000	6852700	7033600	12940000	11450000	8769100	6945400	18640000	10330000	8552300	2482300	10115000	14031000
LIPID-P-1113	TG(18.0_18.3_20.2)	甘油三酯_TG(18.0_18.3_20.2)	GL	甘油酯类	TG	甘油三酯	C59H104O6	6048400	5477600	11491000	5138600	6469800	11551000	9302400	7897600	6931700	17431000	5686200	5063900	1177400	6747700	9974100
LIPID-P-1114	TG(16.0_18.1_22.4)	甘油三酯_TG(16.0_18.1_22.4)	GL	甘油酯类	TG	甘油三酯	C59H104O6	10209000	7103200	23077000	7800200	13046000	26120000	11382000	17201000	14834000	34952000	11320000	8750500	2346100	14039000	15669000
LIPID-P-1116	TG(18.0_18.1_20.4)	甘油三酯_TG(18.0_18.1_20.4)	GL	甘油酯类	TG	甘油三酯	C59H104O6	785900	6809800	14738000	9975900	8342000	16636000	12282000	17847000	10506000	17471000	11086000	12196000	3446400	9041900	15561000
LIPID-P-1117	TG(18.2_18.2_20.1)	甘油三酯_TG(18.2_18.2_20.1)	GL	甘油酯类	TG	甘油三酯	C59H104O6	251100	1497900	4365900	2174100	1042900	3255600	3581700	2579000	2355900	5475600	4115400	3272700	884300	4171500	5008200
LIPID-P-1118	TG(17.1_18.1_21.3)	甘油三酯_TG(17.1_18.1_21.3)	GL	甘油酯类	TG	甘油三酯	C60H106O6	617135	258373	117120	50002	58885	77675	33635	73194	39259	107050	5829.8	11651	2245.5	12790	25192
LIPID-P-1120	TG(17.0_18.0_22.5)	甘油三酯_TG(17.0_18.0_22.5)	GL	甘油酯类	TG	甘油三酯	C60H106O6	53057	29751	122960	32716	38955	116020	68317	83078	78905	158650	62887	68698	15473	76436	102060
LIPID-P-1122	TG(18.2_18.2_21.5)	甘油三酯_TG(18.2_18.2_21.5)	GL	甘油酯类	TG	甘油三酯	C61H108O6	541570	221870	510000	401160	544960	781740	505980	609770	375670	1355700	411990	496480	69948	479540	803360
LIPID-P-1123	TG(18.1_18.2_22.2)	甘油三酯_TG(18.1_18.2_22.2)	GL	甘油酯类	TG	甘油三酯	C61H108O6	262320	119060	628220	197060	215920	342930	194710	254680	173830	491540	167460	160180	31201	156630	289760
LIPID-P-1124	TG(18.0_18.1_22.4)	甘油三酯_TG(18.0_18.1_22.4)	GL	甘油酯类	TG	甘油三酯	C61H108O6	263430	317660	551180	310090	401340	1004000	336550	611830	475930	926430	253850	246500	154190	315210	410730
LIPID-P-1125	TG(16.0_18.1_24.0)	甘油三酯_TG(16.0_18.1_24.0)	GL	甘油酯类	TG	甘油三酯	C61H108O6	583900	345500	1703500	602520	640960	857540	591730	583430	362400	1180600	113600	91158	32537	165250	147940
LIPID-P-1126	TG(24.1_18.2_18.2)	甘油三酯_TG(24.1_18.2_18.2)	GL	甘油酯类	TG	甘油三酯	C63H112O6	21987	11875	89649	19047	31711	28462	18893	38952	16019	84373	12430	27844	4580.1	29121	34731
LIPID-P-1128	TG(16.0_18.2_16.4)	甘油三酯_TG(16.0_18.2_16.4)	GL	甘油酯类	TG	甘油三酯	C53H90O6	39017	24526	211900	48488	64273	129980	108750	137010	101040	136480	111590	157490	94478	120690	245080
LIPID-P-1129	TG(14.1_18.2_18.3)	甘油三酯_TG(14.1_18.2_18.3)	GL	甘油酯类	TG	甘油三酯	C53H90O6	37337	41644	164830	20848	56575	95774	49250	110520	65745	92097	149430	76151	60810	143770	105240
LIPID-P-1130	TG(14.0_16.1_20.5)	甘油三酯_TG(14.0_16.1_20.5)	GL	甘油酯类	TG	甘油三酯	C53H90O6	122310	63638	249890	111940	148010	240940	109300	156030	122460	348160	212270	123170	108880	236480	367990
LIPID-P-1132	TG(12.0_16.0_22.6)	甘油三酯_TG(12.0_16.0_22.6)	GL	甘油酯类	TG	甘油三酯	C53H90O6	65428	127950	677050	151690	147710	197950	226010	181290	246720	295820	121960	216970	148420	227420	314950
LIPID-P-1135	TG(16.0_16.1_20.5)	甘油三酯_TG(16.0_16.1_20.5)	GL	甘油酯类	TG	甘油三酯	C55H94O6</															

Index	Compounds	物质	Class I	物质一級分类	Class II	物质二級分类	Formula	ND1	ND2	ND3	ND4	ND5	HFD1	HFD2	HFD3	HFD4	HFD5	AST-H1	AST-H2	AST-H3	AST-H4	AST-H5
LIPID-P-1179	TG(16:1_16:1_24:5)	甘油三酯_TG(16:1_16:1_24:5)	GL	甘油酯类	TG	甘油三酯	C59H100O6	1643900	634360	6425600	800110	1428100	3159500	1393400	2056600	1311700	3310300	1575900	2037900	376230	2521500	2834500
LIPID-P-1180	TG(17:0_18:1_22:6)	甘油三酯_TG(17:0_18:1_22:6)	GL	甘油酯类	TG	甘油三酯	C60H102O6	361520	188380	1097900	274280	337920	596200	403130	460820	407210	760190	470160	459630	246880	476050	583330
LIPID-P-1182	TG(18:1_18:1_22:5)	甘油三酯_TG(18:1_18:1_22:5)	GL	甘油酯类	TG	甘油三酯	C61H104O6	553000	2698300	4437000	3141500	5625300	793900	3681700	6598300	3317400	10016000	3017100	2939200	1191700	2729100	4343100
LIPID-P-1183	TG(18:1_18:2_22:4)	甘油三酯_TG(18:1_18:2_22:4)	GL	甘油酯类	TG	甘油三酯	C61H104O6	982520	775490	6054400	634450	871590	2575200	1829300	1764800	1564000	3050000	3827800	892460	3292100	4606900	
LIPID-P-1184	TG(16:0_20:2_22:5)	甘油三酯_TG(16:0_20:2_22:5)	GL	甘油酯类	TG	甘油三酯	C61H104O6	1129400	704800	4476500	499150	1093000	1397600	733720	1024500	667340	1737900	890850	1239900	335970	1154400	1453900
LIPID-P-1185	TG(18:0_18:1_22:6)	甘油三酯_TG(18:0_18:1_22:6)	GL	甘油酯类	TG	甘油三酯	C61H104O6	460160	511350	1039600	552590	549510	740630	376730	424420	435860	681670	505190	559650	171340	526640	696480
LIPID-P-1186	TG(19:0_18:1_22:6)	甘油三酯_TG(19:0_18:1_22:6)	GL	甘油酯类	TG	甘油三酯	C62H106O6	37005	29378	106800	30515	50843	48228	42000	49647	34900	85885	33004	53231	5998.1	24260	60112
LIPID-P-1187	TG(18:1_20:1_22:5)	甘油三酯_TG(18:1_20:1_22:5)	GL	甘油酯类	TG	甘油三酯	C63H108O6	32217	31604	361900	34791	37006	56410	70307	94425	41638	167750	118180	88511	8685.9	72040	173560
LIPID-P-1188	TG(18:0_18:1_24:6)	甘油三酯_TG(18:0_18:1_24:6)	GL	甘油酯类	TG	甘油三酯	C63H108O6	28423	12663	363340	22753	39521	52596	16651	29269	27241	78415	19598	17914	7852.9	14891	31045
LIPID-P-1189	TG(18:0_20:1_22:6)	甘油三酯_TG(18:0_20:1_22:6)	GL	甘油酯类	TG	甘油三酯	C63H108O6	24093	34940	171360	39271	43394	79599	50897	63477	31774	89278	38579	59450	27417	45639	79654
LIPID-P-1190	TG(16:0_22:1_22:6)	甘油三酯_TG(16:0_22:1_22:6)	GL	甘油酯类	TG	甘油三酯	C63H108O6	36575	28682	292210	16211	41908	51613	35846	29212	31638	46523	13598	27988	12991	23033	29898
LIPID-P-1192	TG(18:1_22:1_22:5)	甘油三酯_TG(18:1_22:1_22:5)	GL	甘油酯类	TG	甘油三酯	C65H112O6	35575	30798	455430	47635	55435	73683	42236	28916	22741	124440	10738	7647.9	1533.2	13453	13401
LIPID-P-1193	TG(14:1_16:1_22:6)	甘油三酯_TG(14:1_16:1_22:6)	GL	甘油酯类	TG	甘油三酯	C55H90O6	92061	92382	596050	138530	123160	191560	181840	202360	162780	219760	185710	208300	124140	254290	248590
LIPID-P-1196	TG(18:2_18:3_18:3)	甘油三酯_TG(18:2_18:3_18:3)	GL	甘油酯类	TG	甘油三酯	C65H112O6	114830	92771	571420	94198	118960	227870	211480	262290	163140	389120	710250	653420	306950	921910	1036900
LIPID-P-1197	TG(16:1_16:1_22:6)	甘油三酯_TG(16:1_16:1_22:6)	GL	甘油酯类	TG	甘油三酯	C57H94O6	125940	505850	5774500	901060	1260400	1436700	942270	1326000	942480	1919100	1636300	1198000	495670	1399900	1900300
LIPID-P-1199	TG(18:1_18:2_20:5)	甘油三酯_TG(18:1_18:2_20:5)	GL	甘油酯类	TG	甘油三酯	C59H98O6	37466	30689	32804	61286	71052	62086	48680	39108	46485	114800	17135	5940.4	9	10671	6682.5
LIPID-P-1200	TG(16:0_18:2_22:6)	甘油三酯_TG(16:0_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C59H98O6	2532200	11763000	76804000	13907000	18967000	34499000	23489000	26389000	24284000	40024000	55461000	35880000	15506000	5862000	64245000
LIPID-P-1201	TG(16:1_18:1_22:6)	甘油三酯_TG(16:1_18:1_22:6)	GL	甘油酯类	TG	甘油三酯	C59H98O6	2558800	917350	7643900	1399500	2253300	3802600	1887100	2411100	1061400	3963300	2338900	1808600	553370	3008500	3100400
LIPID-P-1202	TG(16:1_16:1_24:6)	甘油三酯_TG(16:1_16:1_24:6)	GL	甘油酯类	TG	甘油三酯	C59H98O6	518190	297990	1098500	2107300	4055500	6337600	4919800	4490100	4887000	7060100	10279000	8770200	2556400	9303400	13235000
LIPID-P-1203	TG(17:0_18:2_22:6)	甘油三酯_TG(17:0_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C60H100O6	400150	188870	1062400	269250	346940	614400	517610	660070	448150	881020	694890	618220	228550	655890	1016300
LIPID-P-1204	TG(18:1_18:2_22:5)	甘油三酯_TG(18:1_18:2_22:5)	GL	甘油酯类	TG	甘油三酯	C61H102O6	2113500	1588900	31656000	1285900	2466700	2287300	3387300	2478100	2432600	5215600	3468200	4087800	1275700	2875600	4827900
LIPID-P-1205	TG(18:1_18:1_22:6)	甘油三酯_TG(18:1_18:1_22:6)	GL	甘油酯类	TG	甘油三酯	C61H102O6	623600	3618500	21977000	4735600	5285400	7756500	4858800	5235800	4341000	7428100	7034100	6370300	2480100	6280600	9778800
LIPID-P-1206	TG(18:0_18:2_22:6)	甘油三酯_TG(18:0_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C61H102O6	1835800	10177000	50873000	15383000	10468000	21954000	13475000	15011000	12516000	18647000	14535000	14541000	5587300	17178000	10359000
LIPID-P-1207	TG(18:2_18:2_22:4)	甘油三酯_TG(18:2_18:2_22:4)	GL	甘油酯类	TG	甘油三酯	C61H102O6	102760	69440	880930	99293	234300	273170	243760	304320	190890	425970	984120	219340	966200	1243800	
LIPID-P-1208	TG(17:1_17:1_24:6)	甘油三酯_TG(17:1_17:1_24:6)	GL	甘油酯类	TG	甘油三酯	C61H102O6	491970	289700	2130500	288900	502470	894110	428680	626560	567000	1048100	683920	836020	233820	744520	989410
LIPID-P-1209	TG(18:1_20:1_22:6)	甘油三酯_TG(18:1_20:1_22:6)	GL	甘油酯类	TG	甘油三酯	C63H106O6	923550	420850	3864100	812910	540200	956280	514150	664400	480930	844480	379950	526740	85749	504460	717770
LIPID-P-1210	TG(18:1_20:3_22:4)	甘油三酯_TG(18:1_20:3_22:4)	GL	甘油酯类	TG	甘油三酯	C63H106O6	665920	313850	4518200	417160	582930	689770	411130	648640	304490	1007800	563290	482000	155100	466980	829390
LIPID-P-1211	TG(18:1_22:1_22:6)	甘油三酯_TG(18:1_22:1_22:6)	GL	甘油酯类	TG	甘油三酯	C65H110O6	89284	20649	124420	51092	45238	74314	33550	49336	20651	91488	7542.9	16074	5351.7	15584	23629
LIPID-P-1214	TG(16:1_16:2_22:6)	甘油三酯_TG(16:1_16:2_22:6)	GL	甘油酯类	TG	甘油三酯	C57H92O6	71329	61728	606140	81594	104700	152390	122790	184450	135610	260350	212480	246970	195530	287520	415390
LIPID-P-1215	TG(16:1_18:2_22:6)	甘油三酯_TG(16:1_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C59H96O6	1853900	1031300	10060000	1201200	1844500	3330300	2152100	3518000	2418700	4303000	5841300	4435000	1929400	5896400	8487600
LIPID-P-1216	TG(18:2_18:3_20:4)	甘油三酯_TG(18:2_18:3_20:4)	GL	甘油酯类	TG	甘油三酯	C59H96O6	1144800	1072900	2199100	889830	1359600	1746500	1088400	1640300	1096100	1798500	2015700	1438500	663150	2366600	2542800
LIPID-P-1217	TG(18:1_18:2_22:6)	甘油三酯_TG(18:1_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C61H100O6	6407100	4288300	26949000	3749400	6206600	10216000	7435300	7296600	6275200	9654600	17323000	13931000	5436200	16956000	21615000
LIPID-P-1218	TG(18:2_20:3_20:4)	甘油三酯_TG(18:2_20:3_20:4)	GL	甘油酯类	TG	甘油三酯	C61H100O6	7249900	7313300	8574300	6028700	8018500	11841000	7768000	8223000	5965600	8092800	6945100	5498500	1506500	6188700	6899000
LIPID-P-1219	TG(16:0_20:4_22:5)	甘油三酯_TG(16:0_20:4_22:5)	GL	甘油酯类	TG	甘油三酯	C61H100O6	548820	346550	6236600	254390	556150	718120	831430	673350	579190	1153400	1914400	2043600	343850	1481100	1772400
LIPID-P-1220	TG(20:1_18:2_22:6)	甘油三酯_TG(20:1_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C63H104O6	664340	374340	3270800	425990	680810	777240	439010	691570	358310	856060	735860	834310	233530	657040	920630
LIPID-P-1221	TG(18:0_20:4_22:5)	甘油三酯_TG(18:0_20:4_22:5)	GL	甘油酯类	TG	甘油三酯	C63H104O6	57234	31891	121870	45849	62770	72094	50252	78215	48631	60372	50695	83649	17666	72079	76184
LIPID-P-1223	TG(18:2_18:3_20:5)	甘油三酯_TG(18:2_18:3_20:5)	GL	甘油酯类	TG	甘油三酯	C59H94O6	12614	11280	150330	2866.5	35630	54545	23410	46422	30646	94021	124480	120720	48103	124160	145130
LIPID-P-1224	TG(16:1_20:4_20:5)	甘油三酯_TG(16:1_20:4_20:5)	GL	甘油酯类	TG	甘油三酯	C59H94O6	36993	18647	97293	22618	48588	44687	28089	53155	31756	85647	199150	177630	73739	222870	284200
LIPID-P-1226	TG(18:2_18:2_22:6)	甘油三酯_TG(18:2_18:2_22:6)	GL	甘油酯类	TG	甘油三酯	C61H98O6	480960	284110	5074800	327260	495290	575480	921160	1126300	561600	1030200	3506800	3530100	1087700	4175500	5400800
LIPID-P-1227	TG(18:2_20:4_20:4)	甘油三酯_TG(18:2_20:4_20:4)	GL	甘油酯类	TG	甘油三酯	C61H98O6	298030	243390	1540400	206600	224430	341770	368560	566240	301590	441290	1527700	1418300	490870	1764800	2073600
LIPID-P-1229	TG(16:0_20:4_22:6)	甘油三酯_TG(16:0_20:4_22:6)	GL	甘油酯类	TG	甘油三酯	C61H98O6	970350	812410	1926600	845590	1049800	1682600	1140200	680100	1005800	1289100	1033200				