|  | [M -  | Fragme  |
|--|---|---|
| N-acyl alanine   | H).   | nt  |
| N-palmitoyl alanine  | 326.5   | 88.09   |
| N-stearoyl alanine   | 354.55  | 88.09   |
| N-oleoyl alanine   | 352.53  | 88.09   |
| N-linoleoyl alanine  | 350.52  | 88.09   |
| N-arachidonoyl alanine   | 374.5   | 88.09   |
| N-docosahexaenovl alanine  | 398.56  | 88.09   |
| The second secon | [M -  | Fragme  |
| N-acyl ethanolamine  | H1  | nt  |
| N-palmitoyl ethanolamine   | 300.29  | 62.1  |
| N-stearovl ethanolamine  | 328.3   | 62.1  |
| N-oleoyl ethanolamine  | 326.3   | 62.1  |
| N-linoleoyl ethanolamine   | 324.3   | 62.1  |
| N-arachidonoyl ethanolamine  | 348.29  | 62.1  |
| N-docosahexaenovl ethanolamine   | 372.6   | 62.1  |
|  | [M -  | Fragme  |
| N-acyl GABA  | H] <sup>-</sup>   | nt  |
| N-palmitoyl GABA   | 340.54  | 102.1   |
| N-stearoyl GABA  | 368.58  | 102.1   |
| N-oleoyl GABA  | 366.57  | 102.1   |
| N-linoleoyl GABA   | 364.54  | 102.1   |
| N-arachidonoyl GABA  | 388.57  | 102.1   |
| N-docosahexaenovl GABA   | 412.59  | 102.1   |
|  | [M -  | Fragme  |
| N-acyl glycine   | H]·   | nt  |
| N-palmitoyl glycine  | 312.26  | 74.2  |
| N-stearoy glycine  | 340.3   | 74.2  |
| N-oleoyl glycine   | 338.3   | 74.2  |
| N-linoleoyl glycine  | 336.3   | 74.2  |
| N-arachidonoyl glycine   | 360.3   | 74.2  |
| N-docosahexaenovl glycine  | 384.3   | 74.2  |
|  | [M -  | Fragme  |
|  |   |   |
| N-acyl leucine   | H] <sup>-</sup>   | nt  |
| N-palmitoyl leucine  | 368.58  | 130.1   |
| N-palmitoyl leucine N-stearoyl leucine   | 368.58<br>396.63  | 130.1<br>130.1  |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine  | 368.58<br>396.63<br>394.61  | 130.1<br>130.1<br>130.1   |
| N-palmitoy/ leucine N-stearoy/ leucine N-oleoy/ leucine N-linoleoy/ leucine  | 368.58<br>396.63<br>394.61<br>392.6   | 130.1<br>130.1<br>130.1<br>130.1  |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64   | 130.1<br>130.1<br>130.1<br>130.1<br>130.1   |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64   | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme   |
| N-palmitoy/ leucine N-stearoy/ leucine N-oleoy/ leucine N-linoleoy/ leucine N-docosahexaenoy/ leucine N-acy/ methionine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H]   | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt   |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-lingleoyl leucine N-docosahexaencyl leucine N-acyl methionine N-palmitoyl methionine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H]   | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2  |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine N-acyl methionine N-palmitoyl methionine N-stearoyl methionine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H] <sup>-</sup><br>386.62<br>414.64  | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2   |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine N-acyl methionine N-palmitoyl methionine N-stearoyl methionine N-oleoyl methionine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H].<br>386.62<br>414.64<br>412.65  | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2  |
| N-palmitoy/ leucine N-stearoy/ leucine N-oleoy/ leucine N-linoleoy/ leucine N-docosahexaenoy/ leucine N-acyl methionine N-palmitoy/ methionine N-stearoy/ methionine N-oleoy/ methionine N-linoleoy/ methionine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H] <sup>-</sup><br>386.62<br>414.64<br>412.65<br>410.64  | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2  |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine N-acyl methionine N-palmitoyl methionine N-stearoyl methionine N-oleoyl methionine N-linoleoyl methionine N-arachidonoyl methionine N-arachidonoyl methionine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H] <sup>-</sup><br>386.62<br>414.64<br>412.65<br>410.64<br>434.66  | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2  |
| N-palmitoy/ leucine N-stearoy/ leucine N-oleoy/ leucine N-linoleoy/ leucine N-docosahexaenoy/ leucine N-acyl methionine N-palmitoy/ methionine N-stearoy/ methionine N-oleoy/ methionine N-linoleoy/ methionine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H]:<br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68  | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2                                   |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine N-acyl methionine N-palmitoyl methionine N-stearoyl methionine N-linoleoyl methionine N-linoleoyl methionine N-arachidonoyl methionine N-docosahexaenoyl methionine N-docosahexaenoyl methionine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H] <sup>-</sup><br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68                                  | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>Fragme                |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine N-acyl methionine N-palmitoyl methionine N-stearoyl methionine N-oleoyl methionine N-linoleoyl methionine N-arachidonoyl methionine N-docosahexaenoyl methionine N-docosahexaenoyl methionine N-acyl phenylalanine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H] <sup>-</sup><br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68<br>[M –<br>H] <sup>-</sup>       | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>Fragme<br>nt                   |
| N-palmitoyl leucine N-stearoyl leucine N-oleoyl leucine N-linoleoyl leucine N-docosahexaenoyl leucine N-acyl methionine N-stearoyl methionine N-stearoyl methionine N-licoleoyl methionine N-arachidonoyl methionine N-docosahexaenoyl methionine N-docosahexaenoyl methionine N-docosahexaenoyl methionine N-acyl phenylalanine N-palmitoyl phenylalanine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H] <sup>-</sup><br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68<br>[M –<br>H] <sup>-</sup>       | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2        |
| N-palmitoyl leucine N-stearoyl leucine N-olecyl leucine N-linolecyl leucine N-docosahexaenoyl leucine N-palmitoyl methionine N-palmitoyl methionine N-stearoyl methionine N-linolecyl methionine N-arachidonoyl methionine N-docosahexaenoyl methionine N-docosahexaenoyl methionine N-docosahexaenoyl methionine N-palmitoyl phenylalanine N-palmitoyl phenylalanine N-stearoyl phenylalanine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H].<br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68<br>[M –<br>H].<br>402.59<br>430.65           | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>Fragme<br>nt<br>164.1          |
| N-palmitoyl leucine N-stearcyl leucine N-licolecyl leucine N-licolecyl leucine N-docosahexaencyl leucine N-palmitoyl methionine N-palmitoyl methionine N-stearcyl methionine N-licolecyl methionine N-arachidonovl methionine N-docosahexaencyl methionine N-docosahexaencyl methionine N-palmitoyl phenylalanine N-palmitoyl phenylalanine N-stearcyl phenylalanine N-clecyl phenylalanine  | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H]:<br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68<br>[M –<br>H]:<br>402.59<br>430.65<br>428.63 | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>Fragme<br>nt<br>164.1<br>164.1 |
| N-palmitoyl leucine N-stearcyl leucine N-olecyl leucine N-linolecyl leucine N-docosahexaencyl leucine N-palmitoyl methionine N-palmitoyl methionine N-stearcyl methionine N-linolecyl methionine N-arachidonovl methionine N-docosahexaencyl methionine N-docosahexaencyl methionine N-docosahexaencyl methionine N-palmitoyl phenylalanine N-palmitoyl phenylalanine N-stearcyl phenylalanine   | 368.58<br>396.63<br>394.61<br>392.6<br>440.64<br>[M –<br>H].<br>386.62<br>414.64<br>412.65<br>410.64<br>434.66<br>458.68<br>[M –<br>H].<br>402.59<br>430.65           | 130.1<br>130.1<br>130.1<br>130.1<br>130.1<br>Fragme<br>nt<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>148.2<br>Fragme<br>nt<br>164.1          |

| N-acyl proline   | [M –   | Fragme nt  |
|--|--|--|
|  | 352.53   | 114.12   |
| N-palmitoyl proline  |  |  |
| N-stearoyl proline   | 380.59   | 114.12   |
| N-olegyl proline   | 378.31   | 114.12   |
| N-linolegyl proline  | 376.56   | 114.12   |
| N-arachidonoyl proline   | 400.58   | 114.12   |
| N-docosahexaenovl proline  | 424.6  | 114.12   |
|  | [M -   | Fragme   |
| N-acyl serine  | H]   | nt   |
| N-palmitoyl serine   | 342.3  | 74   |
| N-stearovI serine  | 370.3  | 74   |
| N-oleoyl serine  | 368.3  | 74   |
| N-linoleoyl serine   | 366.27   | 74   |
| N-arachidonoyl serine  | 390.3  | 74   |
| N-docosahexaenovi serine   | 414.3  | 74   |
| 7V-gocosanexaenovi senne   | [M -   | Fragme   |
| N-acyl taurine   | HJ.  | nt   |
| N-arachidonoyl taurine   | 410.6  | 124  |
| 74-arachidonoyi tadime   | [M -   | Fragme   |
| M acul truntonhan  | HJ.  | rragme<br>nt   |
| N-acyl tryptophan  |  | (CT)   |
| N-palmitoyl tryptophan   | 441.63   | 203.1  |
| N-stearoyl tryptophan  | 469.68   | 203.1  |
| N-oleoyl tryptophan  | 467.67   | 203.1  |
| N-linoleoyl tryptophan   | 465.65   | 203.1  |
| N-arachidonoyl tryptophan  | 489.67   | 203.1  |
| N-docosahexaenovi tryptophan   | 513.69   | 203.1  |
|  | [M -   | Fragme   |
| N-acyl tyrosine  | H)   | nt   |
| N-palmitoyl tyrosine   | 418.59   | 180.18   |
| N-stearovi tyrosine  | 446.65   | 180.18   |
| N-oleovi tyrosine  | 444.63   | 180.18   |
|  | 442.61   | 180.18   |
| N-linoleoyl tyrosine   | The second second  | \$1000 a.m. 1500.  |
| N-arachidonoyl tyrosine  | 466  | 180.18   |
| N-docosahexaenovl tyrosine   | 490.66   | 180.18   |
|  | [M –   | Fragme   |
|  | H] <sup>-</sup>  | nt   |
| N-acyl valine  |  |  |
| N-acyl valine N-palmitoyl valine   | 354.31   | 116.31   |
| N-palmitoyl valine   |  | 116.31<br>116.14   |
| N-palmitoyl valine N-stearoyl valine   | 354.31<br>382.6  | 116.14   |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine   | 354.31<br>382.6<br>380.59  | 116.14<br>116.14   |
| N-palmitoyl valine N-stearcyl valine N-olecyl valine N-nervoncyl valine  | 354.31<br>382.6<br>380.59<br>464.75  | 116.14<br>116.14<br>116.14   |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58  | 116.14<br>116.14<br>116.14<br>116.14   |
| N-palmitoyl valine N-stearcyl valine N-olecyl valine N-nervoncyl valine  | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62  | 116.14<br>116.14<br>116.14<br>116.14<br>116.14   |
| N-palmitoyl valine N-stearoyl valine N-olecyl valine N-nervoncyl valine N-linolecyl valine N-docosahexaencyl valine  | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M -  | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme   |
| N-palmitoyl valine N-stearoyl valine N-pleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine Free Fatty Acids   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H]  | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt   |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine Free Fatty Acids Linoleic Acid   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H]  | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt   |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine Free Fatty Acids   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5   | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br><b>Fragme</b><br>nt<br>261<br>285  |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine  Free Fatty Acids Linoleic Acid Arachidonic Acid   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5   | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme   |
| N-palmitoyl valine N-stearcyl valine N-olecyl valine N-nervoncyl valine N-inclecyl valine N-docosahexaencyl valine Free Fatty Acids Linoleic Acid Arachidonic Acid 2-acyl-sn-glycerol  | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup>  | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt   |
| N-palmitoyl valine N-stearovl valine N-oleoyl valine N-nervonoyl valine N-inoleoyl valine N-docosahexaenovl valine Free Fatty Acids Linoleic Acid Arachidonic Acid 2-acyl-sn-glycerol 2-arachidonoyl-sn-glycerol   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3   | 116.14<br>116.14<br>116.14<br>116.14<br><b>Fragme</b><br>nt<br>261<br>285<br><b>Fragme</b><br>nt<br>287.5                                    |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-linoleoyl-sn-glycerol  | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5  | 116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt<br>287.5<br>245   |
| N-palmitoyl valine N-stearovl valine N-oleoyl valine N-nervonoyl valine N-inoleoyl valine N-docosahexaenovl valine Free Fatty Acids Linoleic Acid Arachidonic Acid 2-acyl-sn-glycerol 2-arachidonoyl-sn-glycerol   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5<br>357.5                                     | 116.14<br>116.14<br>116.14<br>116.14<br><b>Fragme</b><br>nt<br>261<br>285<br><b>Fragme</b><br>nt<br>287.5<br>245<br>265.2                    |
| N-palmitoyl valine N-stearoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-inoleoyl-sn-glycerol 2-linoleoyl-sn-glycerol 2-oleoyl-sn-glycerol  | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5<br>357.5<br>[M –                             | 116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt<br>287.5<br>245   |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine N-docosahexaenoyl valine  Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-arachidonoyl-sn-glycerol 2-linoleoyl-sn-glycerol 2-oleoyl-sn-glycerol Prostaglandins   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5<br>357.5                                     | 116.14<br>116.14<br>116.14<br>116.14<br><b>Fragme</b><br>nt<br>261<br>285<br><b>Fragme</b><br>nt<br>287.5<br>245<br>265.2                    |
| N-palmitoyl valine N-stearoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-inoleoyl-sn-glycerol 2-linoleoyl-sn-glycerol 2-oleoyl-sn-glycerol  | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5<br>357.5<br>[M –                             | 116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt<br>287.5<br>245<br>265.2<br>Fragme                        |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-inoleoyl valine N-docosahexaenoyl valine N-docosahexaenoyl valine N-docosahexaenoyl valine  Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-arachidonoyl-sn-glycerol 2-linoleoyl-sn-glycerol 2-oleoyl-sn-glycerol Prostaglandins  PGE <sub>2</sub> | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5<br>357.5<br>[M –<br>H] <sup>-</sup><br>351.2 | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt<br>287.5<br>245<br>265.2<br>Fragme<br>nt<br>315 |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-linoleoyl valine N-docosahexaenoyl valine N-docosahexaenoyl valine  Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-arachidonoyl-sn-glycerol 2-linoleoyl-sn-glycerol 2-oleoyl-sn-glycerol Prostaglandins   | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H]-<br>279.5<br>303.5<br>[M –<br>H]-<br>379.3<br>355.5<br>357.5<br>[M –<br>H]-<br>351.2<br>353.3                            | 116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt<br>287.5<br>245<br>265.2<br>Fragme<br>315<br>309.2        |
| N-palmitoyl valine N-stearoyl valine N-oleoyl valine N-nervonoyl valine N-inoleoyl valine N-docosahexaenoyl valine N-docosahexaenoyl valine N-docosahexaenoyl valine  Free Fatty Acids Linoleic Acid Arachidonic Acid  2-acyl-sn-glycerol 2-arachidonoyl-sn-glycerol 2-linoleoyl-sn-glycerol 2-oleoyl-sn-glycerol Prostaglandins  PGE <sub>2</sub> | 354.31<br>382.6<br>380.59<br>464.75<br>378.58<br>426.62<br>[M –<br>H] <sup>-</sup><br>279.5<br>303.5<br>[M –<br>H] <sup>-</sup><br>379.3<br>355.5<br>357.5<br>[M –<br>H] <sup>-</sup><br>351.2 | 116.14<br>116.14<br>116.14<br>116.14<br>116.14<br>Fragme<br>nt<br>261<br>285<br>Fragme<br>nt<br>287.5<br>245<br>265.2<br>Fragme<br>nt<br>315 |

**Supplemental Table 1** List of lipids screened in HPLC/MS/MS analysis of MAGL KO and WT mouse eyes and spinal cords with parent ion and fragment ion masses. Lipids are grouped by amide family and all members of that lipid family are screened in a multiple reactions monitoring (MRM) method. Negative ionization mode, resulting in a [M – H]<sup>-</sup> parent ion, is used for all methods except the *N*-acyl ethanolamine and 2-acyl glycerol methods, which uses positive ionization and generates a parent ion with a mass of [M + H]<sup>+</sup>. The parent ion is then fragmented into the collision chamber and an abundant fragment can be selected as the fragment ion. Therefore, unknown lipids are matched to known standards according to retention time from the analytical column and according to their mass fingerprint.