**Table S1:** Chemical composition of the *N. muscorum* extract.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Retention Time (min−1)** | **Compound Name** | **Formula** | **Value of Total Compounds %** | **Molecular Weight** |
| 47.47 | 9-Hexadecenoic acid, methyl ester, (Z) | C17H32O2 | 3.31 | 268 |
| 48.32 | Hexadecanoic acid, methyl ester | C17H34O2 | 13.68 | 270 |
| 49.69 | Ethyl 9-hexadecenoate | C18H34O2 | 2.17 | 282 |
| 50.51 | Palmitic acid, ethyl ester | C18H36O2 | 5.75 | 284 |
| 53.32 | 9,12-Octadecadienoic acid (Z,Z)-, methyl ester (Linoleic acid, methyl ester) | C19H34O2 | 3.39 | 294 |
| 53.64 | 9-Octadecenoic acid (Z)-, methyl ester | C19H36O2 | 7.54 | 296 |
| 54.26 | Phytol | C20H40O | 10.03 | 296 |
| 54.7 | Octadecenoic acid, methyl ester | C19H38O2 | 7.2 | 298 |
| 55.7 | Linoleic acid ethyl ester | C20H36O2 | 3.07 | 308 |
| 56.05 | 9-Octadecenoic acid (Z)-, ethyl ester | C20H38O2 | 4.75 | 310 |
| 67.41 | 1,2-Benzenedicarboxylic acid | C24H38O4 | 2.63 | 390 |
| 73.4 | Erucylamide | C22H43NO | 36.48 | 337 |

**Table S2:** Chemical composition of *S. platensis* extract.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Retention Time (min−1)** | **Compound Name** | **Formula** | **Value of Total Compounds %** | **Molecular Weight** |
| 47.46 | 9-Hexadecenoic acid, methyl ester, (Z) | C17H32O2 | 3.56 | 268 |
| 48.32 | Hexadecanoic acid, methyl ester | C17H34O2 | 24.75 | 270 |
| 53.04 | Methyl 3-cis,9-cis,12-cis-octadecatrienoate | C19H32O2 | 2.71 | 292 |
| 53.31 | Linoleic acid, methyl ester | C19H34O2 | 7.5 | 294 |
| 53.42 | Linolenic acid | C18H30O2 | 2.47 | 278 |
| 53.62 | Methyl 10-octadecenoate | C19H36O2 | 7.48 | 296 |
| 54.69 | Methyl stearate | C19H38O2 | 10.79 | 298 |
| 67.4 | 1,2-Benzenedicarboxylic acid | C24H38O4 | 3.99 | 390 |
| 73.36 | Erucylamide | C22H43NO | 32.25 | 337 |
| 76.16 | Cholesterinpalmitat | C43H76O2 | 2.29 | 624 |
| 80.84 | Cholest-5-en-3-ol, (3α) | C27H46O | 2.21 | 386 |

**Table S3:** Chemical composition of *U.* *lactuca* extract.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Retention Time (min−1)** | **Compound Name** | **Formula** | **Value of Total Compounds %** | **Molecular Weight** |
| 5.14 | Acetic Acid Ethyl Ester | C4H8O2 | 2.29 | 88 |
| 38.78 | 9-Nonadecene | C19H38 | 1.53 | 266 |
| 38.78 | 8-Heptadecene | C17H34 | 1.53 | 238 |
| 44.34 | 2-Hexadecen-1-ol, 3,7,11,15-tetramethy l-, acetate, [R-[R\*,R\*-(E)]] | C22H42O2 | 2.89 | 338 |
| 44.34 | 2-HEXADECEN-1 OL, 3,7,11,15-TETRAM ETHYL-, [R-[R\*,R\*-(E)]] | C20H40O | 2.89 | 296 |
| 44.34 | Neophytadiene | C20H38 | 2.89 | 278 |
| 46.77 | Hexadecanoic acid, methyl ester | C17H34O2 | 3.65 | 270 |
| 48.10 | Hexadecanoic Acid | C16H32O2 | 4.08 | 256 |
| 52.57 | Phytol Isomer | C20H40O | 2.19 | 296 |
| 52.95 | Heptadecanoic Acid, 16-Methyl-, Methyl Ester | C19H38O2 | 2.45 | 298 |
| 61.31 | Phenol, 2,2’-Methylenebis[6 (1,1-Dimethylethyl)-4-Methyl | C23H32O2 | 31.61 | 340 |
| 46.22 | 1-Monopalmitin, 2TMS derivative | C25H54O4Si2 | 4.34 | 474 |
| 64.60 | Glycerol 1-palmitate | C19H38O4 | 4.69 | 330 |
| 64.77 | 1,3-Dipalmitin, TMS derivative | C38H76O5Si | 3.34 | 640 |
| 65.59 | 2,6-dimethyl-n-( 2-methyl-à-phenyl benzyl)aniline | C22H23N | 2.04 | 301 |
| 69.10 | Cyclodecasiloxane, eicosamethyl | C20H60O10Si10 | 1.46 | 740 |
| 69.78 | 4H-1-Benzopyran-4-one, 2-(3,4-dimethoxyphenyl)-5-hydroxy-3,6,7-trimethoxy- | C20H20O8 | 2.71 | 388 |
| 72.78 | 1H-Purin-6-amine, N-((3-fluorophenyl)methyl)- | C12H10FN5 | 1.98 | 243 |
| 76.13 | Octasiloxane, 1,1,3,3,5,5,7,7,9,9,11 ,11,13,13,15,15-hex adecamethyl | C16H50O7Si8 | 1.51 | 578 |
| 78.90 | Cholesterol | C27H46O | 5.61 | 386 |
| 83.07 | á-Sitosterol | C29H50O | 4.16 | 414 |
| 83.38 | Ergosta-5,24(28)-die n-3-ol, (3á) | C28H46O | 10.16 | 398 |