SUPPLEMENTARY MATERIAL TO

**The phenolic “fingerprint” of strawberry tree (*Arbutus* *unedo* L.) honey**

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**Table S1** Negative ion MS4 fragmentation data for the phenolics indetified in *A. unedo* honey.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Molecular ion, *m/z*** | **MS2 Fragments, *m/z* (% Base Peak)** | **MS3 Fragments, *m/z* (% Base Peak)** | **MS4 Fragments, *m/z* (% Base Peak)** |
| ***Phenolic acids and their derivatives*** | | | | |
| **1** | 169 | **125**(100) | **107**(100) | ND |
| **2** | 315 | **153**(100), 152(50), 109(15), 108(10) | **109**(100) | **84**(100), 81(60) |
| **3** | 329 | **167**(100) | **152**(100), 123(70), 108(20) | 124(5), **108**(100) |
| **4** | 153 | **109**(100), 95(75), 79(20), 59(10) | **81**(100), 68(25), 65(15) | ND |
| **5** | 515 | **353**(100), 341(5), 323(10), 191(90), 179(5) | **191**(100), 179(10) | 173(65), 127(80), 111(30), **85**(100) |
| **6** | 299 | **137**(100) | **93**(10) | ND |
| **7** | 341 | **179**(100), 161(35), 135(10) | **135**(100) | 135(10), 117(15), **107**(100), 91(35) |
| **8** | 339 | **177**(100) | 177(5), 149(10), **133**(100), 105(10), 89(5) | **89**(100) |
| **9** | 137 | 109(10), **93**(100) | **93**(100) | ND |
| **10** | 353 | **191**(100), 179(5) | 173(75), **127**(100), 111(40), 93(60), 85(90) | 109(30), 99(60), **85**(100) |
| **11** | 325 | 163(80), **145**(100), 119(10) | **117**(100) | ND |
| **12** | 179 | **135**(100), 117(10), 91(20), 59(15) | **107**(100), 59(50) | ND |
| **13** | 167 | 153(10), 152(80), 124(10), **123**(100), 108(20) | **108**(100) | 123(30), 80(35), **78**(100) |
| **14** | 355 | 217(60), **193**(100), 175(40), 134(10) | 178(20), 149(40), **134**(100) | 134(50), **106**(100) |
| **15** | 197 | **182**(100), 153(50), 138(10) | **167**(100), 138(10), 123(5) | **123**(100) |
| **16** | 335 | **179**(100), 135(25) | **135**(100) | **107**(100) |
| **17** | 337 | **191**(100), 179(5), 163(10) | 173(75), **127**(100), 111(40), 93(60), 85(90) | 109(30), 99(40), **85**(100) |
| **18** | 163 | **119**(100) | 119(60), 101(20), 93(25), **91**(100), 72(10) | ND |
| **19** | 151 | **136**(100) | 108(25), **92**(100) | **108**(100) |
| **20** | 223 | **208**(100), 179(30), 164(20) | 193(10), **164**(100), 149(15), 135(5) | **149**(100), 135(35) |
| **21** | 193 | 178(70), **149**(100), 134(50) | **134**(100) | **106**(100) |
| **22** | 515 | **353**(100) | **191**(100), 179(40), 135(10) | **173**(100), 127(50), 111(40), 85(70) |
| **23** | 177 | 163(10), **162**(100) | **134**(100), 133(40), 120(20), 106(30) | **106**(100), 65(80) |
| **24** | 499 | 361(5), **337**(100), 163(10) | 191(10), 173(60), **163**(100), 119(10) | **119**(100) |
| **25** | 529 | **367**(100), 349(10), 179(10), 161(10) | 193(10), 191(25), **179**(100), 161(80), 135(60) | **135**(100) |
| **26** | 147 | 104(10), **103**(100), 87(10) | **119**(100) | ND |
| **27** | 177 | 177(10), 162(40), **145**(100), 118(50) | **177**(100) | ND |
| ***Flavonoids and their derivatives*** | | | | |
| **28** | 593 | 467(15), **425**(100), 407(30), 289(20) | **407**(100), 281(5), 273(10) | 389(30), 297(30), **285**(100), 243(70) |
| **29** | 289 | 271(5), **245**(100), 205(40), 179(15), 125(5) | 227(30), **203**(100), 187(25), 175(10), 161(20) | 188(70), 185(20), **175**(100), 161(40), 157(10) |
| **30** | 577 | 451(15), **425**(100), 407(40), 289(20), 287(10) | **407**(100), 281(5), 273(10) | 389(30), 297(30), **285**(100), 243(70) |
| **31** | 289 | 271(5), **245**(100), 205(40), 179(15), 125(5) | 227(35), **203**(100), 187(30), 175(15), 161(25) | 188(60), 185(20), **175**(100), 161(35), 157(15) |
| **32** | 639 | 459(65), **315**(100), 314(70), 300(60), 299(50) | **300**(100) | **271**(100), 255(55), 165(15) |
| **33** | 609 | 447(10), 429(80), **285**(100), 284(70), 255(20) | **257**(100), 241(50), 229(40), 213(30), 151(70) | 255(10), 239(30), **229**(100), 163(40) |
| **34** | 609 | 343(5), **301**(100), 300(30), 271(10), 255(5) | 273(25), 257(20), **179**(100), 151(75) | **151**(100) |
| **35** | 431 | 341(20), **311**(100) | **283**(100) | 283(80), **239**(100), 183(70) |
| **36** | 463 | **301**(100), 300(30) | 273(25), 257(20), **179**(100), 151(75) | **151**(100) |
| **37** | 593 | **285**(100) | 267(40), **257**(100), 241(30), 229(40), 213(30) | 255(10), 239(30), **229**(100), 163(40) |
| **38** | 623 | **315**(100), 300(20), 271(10), 255(5) | **300**(100), 287(5), 272(5) | **271**(100), 255(50), 151(5) |
| **39** | 433 | 343(5), 301(80), **300**(1000) | **271**(100), 255(60), 179(10), 151(10) | **243**(100), 227(80), 215(20), 199(20) |
| **40** | 579 | **459**(100), 357(5), 313(25), 271(45), 235(10) | 441(30), **357**(100), 339(30), 271(55), 235(85) | **339**(100), 169(20), 151(50), 125(20) |
| **41** | 477 | 462(40), **315**(100), 314(30), 300(25), 299(25) | **300**(100), 299(5) | **272**(100), 271(60), 255(80) |
| **42** | 447 | 327(20), 285(80), **284**(100), 255(10) | **255**(100), 227(10) | **227**(100), 211(60) |
| **43** | 489 | 285(50), **284**(100), 255(20), 227(10) | **257**(100), 241(50), 229(40), 213(30), 151(70) | 255(10), 239(30), **229**(100), 163(40) |
| **44** | 285 | 257(40), **241**(100), 217(50), 199(70), 175(70) | 255(50), **227**(100), 211(75), 197(35), 183(85) | ND |
| **45** | 301 | 271(50), 255(20), **179**(100), 151(80), 107(5) | **151**(100) | **107**(100), 83(10) |
| **46** | 271 | 225(5), 177(10), **151**(100) | **107**(100) | **65**(100) |
| **47** | 285 | **255**(100), 227(10) | **211**(100), 195(5), 167(15) | 211(40), **137**(100) |
| **48** | 315 | 301(20), **300**(100) | 283(40), 271(80), 255(30), 227(30), **151**(100) | **107**(100), 83(15) |
| **49** | 315 | 301(20), **300**(100) | 283(10), 271(50), **255**(100), 227(25), 165(30) | **227**(100), 200(15), 183(10) |
| **50** | 253 | 253(30), **209**(100), 181(20), 165(15), 151(15) | **181**(100), 165(30), 153(20), 141(10) | 171(10), **153**(100), 152(10), 139(50) |
| **51** | 255 | **213**(100), 187(15), 151(30), 145(10), 107(5) | **185**(100), 169(20), 145(20) | 185(10), 157(15), **143**(100), 141(50), 117(15) |
| **52** | 269 | 241(40), 227(80), **213**(100), 197(90), 169(50) | 211(10), 198(20), 185(40), **169**(100), 143(25) | ND |