|  |  |
| --- | --- |
|  | **Table S1.** Results of tentative LC/MS analysis. |
|  | **RT (min)** | **Compound(molecular formula)** | **Compound (tentative analysis)** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **B8** | **B9** | **B10** | **B11** | **S1** | **S2** | **S3** | **S4** | **S5** | **S6** |
| 1 | 3.10 | C9H8O2 | Cinnamic acid or *p*-hydroxycinnamaldehyde | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 2 | 3.30 | C7H6O5 | Gallic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 3 | 4.20 | C6H6O3 | Phloroglucinol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 4 | 4.40 | C9H8O2 | Cinnamic acid or *p*-hydroxycinnamaldehyde | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 5 | 4.80 | C7H8O2 | *p*-Methylcatechol | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 6 | 5.20 | C8H8O4 | 3,4-Dihydroxyphenylacetic acid or homogentisic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 7 | 6.07 | C7H6O4 | Protocatechuic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 8 | 7.91 | C9H10O4 | *p*-Hydroxyphenyllactic acid | nd | nd | nd | nd | DAD | nd | nd | nd | nd | DAD | DAD | MSD | MSD | MSD | MSD | MSD | MSD |
| 9 | 8.93 | C7H6O3 | *o*-Hydroxybenzoic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | DAD | DAD | DAD | DAD | DAD | DAD | MSD | DAD | DAD |
| 10 | 9.39 | C7H6O3 | *p*-Hydroxybenzoic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 11 | 10.50 | C8H8O3 | *p*-Anisic acid or mandelic acid or vanillin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 12 | 10.90 | C16H18O9 | Chlorogenic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | DAD | DAD | DAD | DAD | DAD | DAD |
| 13 | 11.20 | C8H8O3 | *p*-Anisic acid or mandelic acid or vanillin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 14 | 11.61 | C8H8O3 | *p*-Anisic acid or mandelic acid or vanillin | DAD | nd | MSD | DAD | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 15 | 12.20 | C8H8O4 | Vanillic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | DAD | MSD | DAD | MSD | DAD | MSD |
| 16 | 12.30 | C7H6O4 | Gentisic acid isomer | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 17 | 12.33 | C9H8O4 | Caffeic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 18 | 12.50 | C9H10O4 | Veratric acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 19 | 13.05 | C7H6O2 | Benzoic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 20 | 13.30 | unknown | N.I. | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 21 | 13.55 | C7H6O4 | Gentisic acid isomer | DAD | nd | nd | DAD | nd | nd | nd | DAD | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 22 | 13.90 | unknown | N.I. | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 23 | 14.28 | C9H8O4 | Acetylsalicylic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 24 | 14.70 | C16H18O9 | Neochlorogenic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 25 | 15.50 | unknown | N.I. | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 26 | 16.16 | C9H8O3 | *o*- or *m*-Coumaric acid | DAD | nd | MSD | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 27 | 16.40 | C8H8O2 | Phenylacetic acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 28 | 17.30 | C10H10O4 | Isoferulic acid or methyl-caffeate | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 29 | 17.51 | C9H8O3 | *p*-Coumaric acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 30 | 18.55 | C9H10O3 | 3-Phenyllactic acid | DAD | nd | MSD | nd | DAD | DAD | nd | nd | DAD | DAD | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 31 | 19.68 | C9H8O3 | *o*- or *m*-Coumaric acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 32 | 19.70 | C8H14O4 | N.I. | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | DAD | DAD | DAD | MSD |
| 33 | 19.80 | C9H8O3 | *o*- or *m*-Coumaric acid | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | DAD | DAD | DAD | DAD | DAD | DAD |
| 34 | 19.90 | C10H14O3 | N.I. | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 35 | 20.50 | C10H12O3 | N.I. | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 36 | 20.87 | C10H10O4 | Ferulic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | MSD | MSD | MSD | MSD | MSD | MSD |
| 37 | 22.07 | C9H8O2 | Cinnamic acid or *p*-hydroxycinnamaldehyde | nd | nd | MSD | nd | nd | MSD | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 38 | 22.60 | C10H10O4 | Isoferulic acid or methyl-caffeate | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 39 | 22.79 | C10H10O4 | Isoferulic acid or methyl-caffeate | nd | nd | MSD | DAD | nd | nd | DAD | nd | DAD | nd | DAD | nd | nd | nd | nd | nd | nd |
| 40 | 23.46 | C10H10O4 | Isoferulic acid or methyl-caffeate | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 41 | 24.00 | C16H14O6 | Hesperetin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | DAD | DAD | DAD | DAD | DAD | DAD |
| 42 | 24.13 | C15H20O5 | *n*-Butyl sinapate | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 43 | 24.58 | C10H10O3 | *p*-Methylcinnamic acid | nd | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 44 | 24.80 | C16H14O6 | Hesperetin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 45 | 25.80 | C15H10O8 | Myricetin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 46 | 25.94 | C15H10O5 | Baicalein or genistein | nd | nd | MSD | DAD | nd | nd | nd | DAD | DAD | nd | DAD | nd | nd | nd | nd | nd | nd |
| 47 | 26.58 | C15H12O4 | N.I. | nd | nd | MSD | nd | nd | nd | nd | nd | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 48 | 26.61 | C10H10O3 | *p*-Methylcinnamic acid  | nd | nd | MSD | nd | nd | nd | nd | nd | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 49 | 26.89 | C15H20O4 | N.I. | DAD | DAD | DAD | nd | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | MSD | MSD | DAD |
| 50 | 27.21 | C10H10O4 | Isoferulic acid or methyl-caffeate | nd | nd | MSD | nd | nd | nd | nd | nd | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 51 | 27.58 | C15H10O4 | Abscisic acid ismomer | DAD | nd | MSD | nd | nd | DAD | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 52 | 27.86 | C15H12O4 | Abscisic acid ismomer | nd | nd | MSD | nd | DAD | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 53 | 28.01 | C15H12O4 | Abscisic acid ismomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 54 | 28.10 | C15H20O4 | Abscisic acid ismomer | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 55 | 28.32 | C15H10O6 | Luteolin | MSD | nd | MSD | nd | nd | MSD | nd | nd | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 56 | 28.38 | C15H10O7 | Quercetin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 57 | 28.62 | C15H20O4 | Abscisic acid | MSD | nd | MSD | DAD | nd | DAD | MSD | DAD | nd | DAD | nd | nd | nd | nd | nd | nd | nd |
| 58 | 28.95 | C16H14O5 | Methyl naringenin isomer or 4′-methyl pinobanksin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 59 | 29.12 | C16H12O7 | Methyl quercetin isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 60 | 29.74 | C15H12O4 | N.I. | nd | nd | MSD | nd | nd | nd | nd | nd | nd | DAD | nd | nd | nd | nd | nd | nd | nd |
| 61 | 29.90 | C16H12O4 | Tecthochrysin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | DAD | nd | nd | DAD | DAD | nd |
| 62 | 29.93 | C15H12O5 | Naringenin | MSD | nd | MSD | MSD | MSD | MSD | MSD | MSD | MSD | MSD | nd | DAD | nd | DAD | DAD | DAD | nd |
| 63 | 30.01 | C15H10O5 | Apigenin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 64 | 30.34 | C15H10O6 | Kaempferol | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 65 | 30.36 | C16H12O7 | Methyl quercetin isomer | nd | nd | MSD | nd | nd | MSD | nd | nd | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 66 | 30.44 | C15H12O5 | Pinobanksin or naringenin chalcone | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 67 | 30.57 | C16H12O4 | Tecthochrysin | nd | nd | MSD | DAD | nd | nd | nd | nd | nd | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 68 | 30.61 | C16H12O5 | Acacetin or genkwanin or methyl galangin isomer | nd | MSD | MSD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 69 | 30.76 | C16H12O7 | Isorhamnetin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | DAD | DAD | DAD | DAD | DAD | DAD |
| 70 | 30.87 | C16H12O7 | Methyl quercetin isomer | nd | nd | MSD | DAD | nd | MSD | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 71 | 31.00 | C15H12O5 | Pinobanksin or naringenin chalcone | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | DAD | DAD | DAD | DAD | DAD | DAD |
| 72 | 31.02 | C16H12O6 | Methyl kaempferol isomer or methyl luteolin isomer or scutellarein isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 73 | 31.00 | C15H12O5 | Pinobanksin or naringenin chalcone | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 74 | 31.41 | C17H14O7 | Tricine or dimethyl quercetin isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | MSD | MSD | MSD | MSD | MSD | MSD |
| 75 | 31.60 | C16H12O5 | Acacetin or genkwanin or methyl galangin isomer | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 76 | 31.70 | C16H14O6 | Hesperetin | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 77 | 31.86 | C16H12O5 | Acacetin or genkwanin or methyl galangin isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 78 | 32.25 | C16H12O7 | Methyl quercetin isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | nd | nd | nd | nd | nd | nd |
| 79 | 32.40 | C17H14O7 | Tricine or dimethyl quercetin isomer | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 80 | 32.87 | C17H14O7 | Tricine or dimethyl quercetin isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 81 | 33.10 | C15H10O5 | Baicalein or genistein | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | MSD | MSD | MSD | MSD | MSD | MSD |
| 82 | 33.39 | C14H16O4 | Prenyl or isoprenyl caffeate or 3,4-dihydroxy-5-prenylcinammic acid | DAD | DAD | DAD | DAD | DAD | DAD | DAD | MSD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 83 | 33.49 | C16H14O4 | Benzyl caffeate or methyl pinocembrin isomer | MSD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | MSD | nd | DAD | DAD | DAD | DAD | DAD |
| 84 | 33.50 | C15H10O5 | Baicalein or genistein | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 85 | 33.63 | C15H10O4 | Chrysin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 86 | 33.69 | C16H12O5 | Acacetin or genkwanin or methyl galangin isomer | nd | nd | MSD | nd | nd | MSD | nd | MSD | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 87 | 33.92 | C15H12O4 | Pinocembrin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 88 | 34.05 | C15H10O5 | Galangin | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 89 | 34.17 | C17H16O4 | Phenylethyl caffeate | MSD | MSD | DAD | DAD | MSD | DAD | DAD | DAD | DAD | MSD | MSD | nd | nd | DAD | DAD | DAD | nd |
| 90 | 34.28 | C17H14O6 | Pinobanksin acetate | DAD | MSD | DAD | DAD | DAD | DAD | DAD | MSD | MSD | MSD | DAD | MSD | MSD | DAD | DAD | DAD | MSD |
| 91 | 34.68 | C16H12O4 | Tecthochrysin | nd | nd | MSD | nd | nd | MSD | nd | nd | nd | nd | MSD | nd | nd | nd | nd | nd | nd |
| 92 | 34.73 | C16H12O5 | Acacetin or genkwanin or methyl galangin isomer | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
| 93 | 35.07 | C18H16O4 | Cinnamyl caffeate | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD | DAD |
|  | nd – non detected; MSD – only MSD detected; DAD – both detected (MSD and DAD); N.I. – non identified, but UV spectrum indicates that it is phenolic compound. |



**Fig. S1.** Total ion chromatogram (negative ionization mode) of the ethyl-acetate extract of the honey sample **B6**.



**Fig. S2.** Total ion chromatogram (negative ionization mode) of the ethyl-acetate extract of the honey sample **S3**.