**Table S1.** Characteristics of G-diketone and other aromatics analyzed by chromatography

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Short Name** | **Structure** | **IUPAC Name** | **Molecular Formula** | **Molecular Weight (g/mol)** | **Retention time in HPLC (min)** | **Retention time in GC (min)\*** |
| G-diketone |  | 1-(4-hydroxy-3-methoxyphenyl)propane-1,2-dione | C10H10O4 | 194.180 | 4.20 | 14.0 |
| GP-1 |  | 2-hydroxy-1-(4-hydroxy-3-methoxyphenyl)propan-1-one | C10H12O4 | 196.200 | 2.86 | 15.8 |
| GP-2 |  | 1-hydroxy-1-(4-hydroxy-3-methoxyphenyl)propan-2-one | C10H12O4 | 196.200 | Unknown | 14.8 |
| threo-GD |  | threo-1-(4-hydroxy-3-methoxyphenyl)propane-1,2-diol | C10H14O4 | 198.220 | 2.08 | 15.4 |
| erythro-GD |  | erythro-1-(4-hydroxy-3-methoxyphenyl)propane-1,2-diol | C10H14O4 | 198.220 | Unknown | 15.2 |
| Vanillic acid |  | 4-hydroxy-3-methoxybenzoic acid | C8H8O4 | 168.150 | 2.54 | 14.4 |
| Vanillin |  | 4-hydroxy-3-methoxybenzaldehyde | C8H8O3 | 152.150 | 2.84 | 12.0 |

\* Retention time in GC is for TMS derivatized compound.