

Compounds	Daytime ( <i>n</i> = 28)	Nighttime ( <i>n</i> = 29)	Total ( <i>n</i> = 57)
<b>Dicarboxylic acids</b>			
Oxalic, C <sub>2</sub>	272 ± 190 (11–623)	156 ± 105 (34–415)	213 ± 162 (11–623)
Malonic, C <sub>3</sub>	49 ± 30 (4.0–101)	31 ± 17 (7.4–69)	40 ± 26 (4.0–101)
Succinic, C <sub>4</sub>	30 ± 23 (2.0–83)	24 ± 16 (4.7–67)	27 ± 20 (2.0–83)
Glutaric, C <sub>5</sub>	7.0 ± 5.5 (0.4–19)	5.6 ± 3.9 (1.1–14)	6.3 ± 4.8 (0.4–19)
Adipic, C <sub>6</sub>	2.2 ± 1.7 (0.1–5.6)	2.2 ± 1.8 (0.2–7.7)	2.2 ± 1.7 (0.1–7.7)
Pimelic, C <sub>7</sub>	3.0 ± 1.9 (0.3–7.3)	2.9 ± 1.3 (0.3–6.1)	3.0 ± 1.6 (0.3–7.3)
Suberic, C <sub>8</sub>	4.3 ± 2.2 (0.9–9.0)	3.8 ± 2.8 (0.4–13)	4.0 ± 2.5 (0.4–13)
Azelaic, C <sub>9</sub>	24 ± 14 (4.2–55)	19 ± 8.6 (4.5–41)	22 ± 12 (4.2–55)
Sebacic, C <sub>10</sub>	5.9 ± 4.3 (0.1–14)	5.6 ± 2.7 (0.7–11)	5.8 ± 3.6 (0.1–14)
Undecanedioic, C <sub>11</sub>	2.4 ± 1.7 (0.2–5.8)	1.1 ± 0.8 (0–3.8)	1.7 ± 1.4 (0–5.8)
Methylmalonic, iC <sub>4</sub>	2.1 ± 1.7 (0.1–5.2)	2.1 ± 1.5 (0–5.3)	2.1 ± 1.6 (0–5.3)
Methylsuccinic, iC <sub>5</sub>	2.7 ± 2.0 (0.1–7.1)	2.2 ± 1.7 (0.2–6.1)	2.4 ± 1.8 (0.1–7.1)
Methylglutaric, iC <sub>6</sub>	2.6 ± 2.1 (0.5–9.1)	2.3 ± 1.9 (0–9.0)	2.5 ± 2.0 (0–9.1)
Maleic, M	2.0 ± 1.2 (0.1–4.3)	3.0 ± 2.0 (0.7–8.2)	2.5 ± 1.7 (0.1–8.2)
Fumaric, F	4.2 ± 2.7 (0.2–9.4)	4.0 ± 3.0 (0.5–13)	4.1 ± 2.8 (0.2–13)
Methylmaleic, mM	2.9 ± 1.7 (0.1–6.6)	2.7 ± 2.1 (0.5–9.9)	2.8 ± 1.9 (0.1–9.9)
Phthalic, Ph	3.0 ± 1.5 (0.6–5.6)	3.3 ± 2.3 (0.7–11.2)	3.2 ± 1.9 (0.6–11.2)
Isophthalic, iPh	1.6 ± 1.0 (0.1–3.3)	1.3 ± 0.8 (0.2–3.5)	1.4 ± 0.9 (0.1–3.5)
Terephthalic, tPh	1.9 ± 1.3 (0.1–5.0)	2.4 ± 1.5 (0.1–6.1)	2.2 ± 1.4 (0.1–6.1)
Ketomalonic, kC <sub>3</sub>	2.6 ± 1.5 (0–5.8)	2.7 ± 1.5 (0.5–6.4)	2.7 ± 1.5 (0–6.4)
Ketopimelic, kC <sub>7</sub>	3.6 ± 2.8 (0.2–9.3)	3.9 ± 2.6 (0.2–12)	3.7 ± 2.7 (0.2–12)
Subtotal	430 ± 282 (27–944)	282 ± 161 (73–671)	354 ± 239 (27–944)
<b>Ketocarboxylic acids</b>			
Pyruvic, Pyr	14 ± 8.8 (1.4–28)	11 ± 5.5 (2.2–23)	12 ± 7.4 (1.4–28)
Glyoxylic, ωC <sub>2</sub>	18 ± 12 (0.9–38)	15 ± 9.5 (3.5–35)	16 ± 11 (0.9–38)
3-Oxopropanoic, ωC <sub>3</sub>	4.0 ± 2.7 (0.1–7.7)	4.1 ± 2.2 (0.5–8.3)	4.1 ± 2.4 (0.1–8.3)
4-Oxobutanoic, ωC <sub>4</sub>	2.9 ± 1.9 (0.2–6.8)	2.5 ± 1.7 (0.6–7.1)	2.7 ± 1.8 (0.2–7.1)
7-Oxoheptanoic, ωC <sub>7</sub>	1.0 ± 0.6 (0–2.7)	1.3 ± 1.0 (0.1–4.8)	1.2 ± 0.9 (0.0–4.8)
8-Oxooctanoic, ωC <sub>8</sub>	1.5 ± 0.9 (0.1–3.3)	1.5 ± 0.7 (0.2–3.4)	1.5 ± 0.8 (0.1–3.4)
9-Oxononanoic, ωC <sub>9</sub>	2.0 ± 1.4 (0.1–4.4)	1.8 ± 1.1 (0.2–4.3)	1.9 ± 1.3 (0.1–4.4)
Subtotal	43 ± 28 (2.9–88)	37 ± 19 (7.6–77)	40 ± 24 (2.9–88)
<b>α-Dicarbonyls</b>			
Glyoxal, Gly	3.1 ± 1.8 (0.3–6.0)	4.6 ± 2.6 (0.4–12)	3.8 ± 2.3 (0.3–12)
Methylglyoxal, mGly	16 ± 9.5 (1.8–33)	22 ± 15 (1.4–62)	19 ± 13 (1.4–62)
Subtotal	19 ± 11 (2.6–39)	27 ± 17 (2.1–69)	23 ± 15 (2.1–69)
Total detected	491 ± 320 (33–1060)	346 ± 194 (96–807)	417 ± 271 (33–1060)