**Supplement Table 2 Log AFMU/1X of caffeine and 13C caffeine**

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| --- | --- | --- | --- | --- | --- |
| **Log AFMU/1X (caffeine)**  Mean ± SD  Min - Max | | | | | |
| **NAT2 activity** | | | | | |
| **MZ** | | | **DZ** | | |
| Rapid/Rapid  (n = 2) | Rapid/Slow  (n = 40) | Slow/Slow  (n = 46) | Rapid/Rapid  (n = 0) | Rapid/Slow  (n = 8) | Slow/Slow  (n = 20) |
| 0.53 ± 0.07  0.49 - 0.58 | 0.48 ± 0.24  0.02 - 0.84 | - 0.44 ± 0.25  - 0.79 - 0.11 | - | 0.45 ± 0.28  0.00 - 0.80 | - 0.52 ± 0.31  - 1.13 - - 0.01 |
|  | | | | | |
| **Log AFMU/1X (13C caffeine)**  Mean ± SD  Min - Max | | | | | |
| **NAT2 activity** | | | | | |
| **MZ** | | | **DZ** | | |
| Rapid/Rapid  (n = 0) | Rapid/Slow  (n = 28) | Slow/Slow  (n = 30) | Rapid/Rapid  (n = 0) | Rapid/Slow  (n = 3) | Slow/Slow  (n = 12) |
| - | 0.11 ± 0.38  - 0.27 - 0.77 | - 0.63 ± 0.44  - 1.27 - 0.04 | - | 0.21 ± 0.44  - 0.10 - 0.71 | - 0.91 ± 0.34  - 1.41 - - 0.05 |

MZ = monozygotic twin pairs, DZ = dizygotic twin pairs, AFMU = 5-acetylamino-6-formylamino-3-methyluracil, 1X = 1-methylxanthine. Data represents the mean of the log AFMU/1X of up to three completed study days. NAT2 activity is given as derived from previous studies, eg. (12).