**Table S1 Plasma concentrations of dextromethorphan and dextrorphan.**

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|  | **Day 0 - t2hr** | **Day 1** |
| **Volunteers** | **Dextrorphan****(ng/ml)** | **Dextromethorphan****(ng/ml)** | **Metabolic ratio** | **Dextrorphan****(ng/ml)** | **Dextromethorphan****(ng/ml)** | **Metabolic ratio** |
| 1 | 3.5 | 3.0 | 1.2 | 6.3 | 8.4 | 0.8 |
| 2 | 5.6 | 3.8 | 1.5 | 8.3 | 7.9 | 1.1 |
| 3 | 2.2 | 1.0 | 2.2 | 5.0 | 1.6 | 3.1 |
| 4 | 2.2 | 6.8 | 0.3 | 5.0 | 24.9 | 0.2 |
| 5 | 4.4 | 1.5 | 2.9 | 7.8 | 3.3 | 2.4 |
| 6 | 1.0 | 0.7 | 1.4 | 1.1 | 0.8 | 1.4 |
| 7 | 3.8 | 0.9 | 4.2 | 9.7 | 1.4 | 6.9 |
| 8 | 2.8 | 0.8 | 3.5 | 3.1 | 0.9 | 3.4 |
| 9 | 4.2 | 0.9 | 4.7 | 4.6 | 1.1 | 4.2 |
| 10 | 4.7 | 1.2 | 3.9 | 10.5 | 2.0 | 5.3 |
| 11 | 1.9 | 0.9 | 2.1 | 4.3 | 1.8 | 2.4 |
| 12 | 1.4 | 0.9 | 1.6 | 5.9 | 2.1 | 2.8 |
| 13 | 4.8 | 3.1 | 1.5 | 8.9 | 4.0 | 2.2 |
| 14 | 4.4 | 1.2 | 3.7 | 5.6 | 1.9 | 2.9 |
| 15 | 6.6 | 1.9 | 3.5 | 12.9 | 3.7 | 3.5 |
| 16 | 4.1 | 0.9 | 4.6 | 5.4 | 1.3 | 4.2 |
| 17 | 1.8 | 0.6 | 3.0 | 8.0 | 1.4 | 5.7 |
| 18 | 3.2 | 3.2 | 1.0 | 6.4 | 6.7 | 1.0 |
| 19 | 2.1 | 0.6 | 3.5 | 3.4 | 0.6 | 5.7 |
| 20 | 3.0 | 0.6 | 5.0 | 8.4 | 0.6 | 14.0 |
|  |  |  |  |  |  |  |
| Mean±S.D. | 3.4±1.5 | 1.7±1.6 | 2.8±1.4 | 6.5±2.8 | 3.8±5.5 | 3.7±3.0 |

Plasma concentration of dextromethorphan and dextrorphan at Day 0 two hours after the first administration of oral 30mg dextromethorphan and at Day 1 two hours after the last administration of 30mg oral dextromethorphan. Metabolic ratio is the ratio of dextrorphan concentration divided by dextromethorphan concentration.