

Supplement

Table S1. List of important VOCs.

| number | VOC | chemical class | presence in biological samples | quantitative changes related to MAP-infection | | | |
|--------|--------------------|----------------|------------------------------------------------------|-----------------------------------------------|--------------|-------------------|-----------------|
| | | | | fecal headspace | alveolar gas | stable air (S1S2) | stable air (S3) |
| 1 | 2-methylpentane | hydrocarbon | alveolar gas | | + | | |
| 2 | 3-hexene | hydrocarbon | alveolar gas | | + | | |
| 3 | 3-methylpentane | hydrocarbon | alveolar gas | | + | | |
| 4 | methylcyclopentane | hydrocarbon | alveolar gas | | + | | |
| 5 | n-hexane | hydrocarbon | alveolar gas | | + | | |
| 6 | pentane | hydrocarbon | alveolar gas | | + | | |
| 7 | 1,3-cyclohexadiene | hydrocarbon | fecal headspace | + | | | |
| 8 | 2-butanol | alcohol | fecal headspace | | + | | |
| 9 | 2-methyl-1-pentene | hydrocarbon | fecal headspace | | + | | |
| 10 | 2-methylbutanal | aldehyde | fecal headspace | | + | | |
| 11 | 2-methylfuran | furan | fecal headspace | | + | | |
| 12 | 2-methylpropanal | aldehyde | fecal headspace | | + | | |
| 13 | 2-methylpropanol | alcohol | fecal headspace | | + | | |
| 14 | 2-pentylfuran | furan | fecal headspace | | + | | |
| 15 | 3-methylbutanol | alcohol | fecal headspace | | + | | |
| 16 | 3-methylfuran | furan | fecal headspace | | + | | |
| 17 | 3-octanone | ketone | fecal headspace | | + | | |
| 18 | 3-pentanone | ketone | fecal headspace | | + | | |
| 19 | 4-methyloctane | hydrocarbon | fecal headspace | + | | | |
| 20 | 4-octene | hydrocarbon | fecal headspace | - | | | |
| 21 | heptane | hydrocarbon | fecal headspace | | + | | |
| 22 | thiophene | hydrocarbon | fecal headspace | | + | | |
| 23 | isoprene | hydrocarbon | alveolar gas, fecal headspace | | + | + | |
| 24 | 2,3-pentanedione | ketone | stable air (S1S2) | | | + | |
| 25 | ethanol | alcohol | alveolar gas, stable air (S1S2, S3) | | + | + | + |
| 26 | propanol | alcohol | alveolar gas, stable air (S1S2, S3) | | + | + | + |
| 27 | 2-butanone | ketone | alveolar gas, fecal headspace, stable air (S1S2, S3) | - | + | + | + |
| 28 | acetone | ketone | alveolar gas, fecal headspace, stable air (S1S2, S3) | + | + | + | + |

Legend

+ mean MAP-positive > mean MAP-negative
- mean MAP-positive < mean MAP-negative