

S4.

Mean  $\pm$  SE concentrations of N<sub>2</sub>O, N<sub>2</sub>, CH<sub>4</sub>, and CO<sub>2</sub> from each experimental treatment over the 7-day study

| N <sub>2</sub> O (nmol g <sup>-1</sup> DW)     |                   |                   |                   |                   |                   |
|------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Day                                            | Control           | MIX               | SMX               | DAN               | ETM               |
| 2                                              | 0.01 $\pm$ 0.001  | 0.01 $\pm$ 0.001  | 0.01 $\pm$ 0.001  | 0.01 $\pm$ 0.002  | 0.01 $\pm$ 0.02   |
| 4                                              | 0.01 $\pm$ 0.0004 | 0.01 $\pm$ 0.001  | 0.01 $\pm$ 0.0002 | 0.01 $\pm$ 0.001  | 0.01 $\pm$ 0.001  |
| 7                                              | 0.01 $\pm$ 0.0003 | 0.01 $\pm$ 0.0001 | 0.01 $\pm$ 0.0003 | 0.01 $\pm$ 0.0003 | 0.01 $\pm$ 0.0001 |
| N <sub>2</sub> ( $\mu$ mol g <sup>-1</sup> DW) |                   |                   |                   |                   |                   |
| Day                                            | Control           | MIX               | SMX               | DAN               | ETM               |
| 2                                              | 17.5 $\pm$ 1.04   | 17.5 $\pm$ 0.60   | 17.5 $\pm$ 0.66   | 20.0 $\pm$ 1.0    | 16.8 $\pm$ 1.71   |
| 4                                              | 16.9 $\pm$ 0.92   | 17.0 $\pm$ 0.90   | 24.8 $\pm$ 1.41   | 20.1 $\pm$ 0.27   | 20.1 $\pm$ 0.63   |
| 7                                              | 17.2 $\pm$ 0.4    | 18.9 $\pm$ 0.69   | 16.2 $\pm$ 0.46   | 16.2 $\pm$ 0.66   | 17.5 $\pm$ 0.72   |
| CH <sub>4</sub> (nmol g <sup>-1</sup> DW)      |                   |                   |                   |                   |                   |
| Day                                            | Control           | MIX               | SMX               | DAN               | ETM               |
| 2                                              | 4.8 $\pm$ 0.5     | 16.1 $\pm$ 4.5    | 10.4 $\pm$ 2.3    | 11.4 $\pm$ 2.04   | 7.9 $\pm$ 2.0     |
| 4                                              | 13.6 $\pm$ 1.5    | 22.5 $\pm$ 2.5    | 20.1 $\pm$ 3.8    | 11.5 $\pm$ 1.5    | 8.9 $\pm$ 1.2     |
| 7                                              | 36.0 $\pm$ 4.0    | 32.6 $\pm$ 1.8    | 29.4 $\pm$ 2.2    | 41.7 $\pm$ 7.8    | 43.5 $\pm$ 6.7    |
| CO <sub>2</sub> (nmol g <sup>-1</sup> DW)      |                   |                   |                   |                   |                   |
| Day                                            | Control           | MIX               | SMX               | DAN               | ETM               |
| 2                                              | 592 $\pm$ 60.9    | 359 $\pm$ 17.4    | 322 $\pm$ 14.1    | 575 $\pm$ 89.2    | 550 $\pm$ 65.3    |
| 4                                              | 557 $\pm$ 94.6    | 779 $\pm$ 27.7    | 659 $\pm$ 25.0    | 680 $\pm$ 48.9    | 672 $\pm$ 39.2    |
| 7                                              | 685 $\pm$ 55.4    | 725 $\pm$ 16.0    | 689 $\pm$ 45.5    | 814 $\pm$ 62.1    | 757 $\pm$ 39.2    |