

Supplementary information table 2. Malondialdehyde concentrations in meat digests

| ID | Meat type | Biological replicate | T0 MDA conc. ($\mu \pm$ SD) (nmol/mL) | | T48 MDA conc. ($\mu \pm$ SD) (nmol/mL) | |
|-------------|---------------------------------|---------------------------------|--|-----------------------------------|---|-----------------------------------|
| | | | No added CaCO ₃ | Added CaCO ₃ | No added CaCO ₃ | Added CaCO ₃ |
| P1 | Chicken | 1 | 29.17 \pm 0.259 | 23.59 \pm 0.133 | 25.4 \pm 1.63 | 20.7 \pm 2.43 |
| | | 2 | 15.1 \pm 1.88 | 14.1 \pm 0.60 | 17.9 \pm 1.11 | 16.1 \pm 1.13 |
| | | 3 | 27.2 \pm 0.87 | 22 \pm 3.1 | 25.0 \pm 1.96 | 22.0 \pm 0.41 |
| | | Mean | 24 \pm 13.5 | 20 \pm 9.1 | 23 \pm 8.7 | 20 \pm 4.8 |
| | Beef | 1 | 48.1 \pm 2.23 | 32.4 \pm 0.47 | 41.1 \pm 1.60 | 27 \pm 3.8 |
| | | 2 | 17.7 \pm 1.59 | 21.9 \pm 2.16 | 17.8 \pm 0.92 | 17.86 \pm 0.071 |
| | | 3 | 51.2 \pm 2.77 | 45 \pm 4.1 | 33 \pm 3.7 | 37.4 |
| Mean | 39 \pm 16.9 | 33 \pm 10.0 | 31 \pm 10.0 | 24.5 \pm 7.04 | | |
| P2 | Chicken | 1 | 22.3 \pm 0.87 | 16.7 \pm 0.78 | 22.5 \pm 1.33 | 15.6 \pm 0.91 |
| | | 2 | 28.6 \pm 2.02 | 26.9 \pm 0.75 | 17.2 \pm 0.30 | 14.8 \pm 0.58 |
| | | 3 | 25.0 \pm 1.34 | 24.1 \pm 0.80 | 15.5 \pm 0.70 | 15.5 \pm 0.32 |
| | | Mean | 25 \pm 5.8 | 23 \pm 6.8 | 18 \pm 3.9 | 15.3 \pm 2.47 |
| | Beef | 1 | 22.8 \pm 0.60 | 24 \pm 3.6 | 26.3 \pm 1.46 | 19.7 \pm 1.26 |
| | | 2 | 35 \pm 3.9 | 36.62 \pm 0.146 | 19.5 \pm 1.23 | 18.7 \pm 0.69 |
| | | 3 | 29.6 \pm 0.98 | 32.87 \pm 0.283 | 18.41 \pm 0.215 | 21.7 \pm 0.89 |
| Mean | 29 \pm 5.1 | 31 \pm 7.0 | 21 \pm 4.4 | 20.1 \pm 2.79 | | |