foods

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**Table S1.** Free amino acid concentration (μmol/ g of digesta at the intestinal phase) of in vitro blank digestions (without substrate) and pressed control samples induced by GDL and $MgSO_4$. Values were represented as means ± standard deviations (n=3-4). Different letters within the same row indicate significant differences ($p \leq 0.05$). Values were represented as means ± standard deviations (n=3-4). Different letters within the same row indicate significant differences ($p \leq 0.05$).

| | Concentration (μmol/ g of Digesta) | | |
|---|---|---|---|
| **AA** | **Blank** | **$MgSO_4$ gels** | **GDL gels** |
| Aspartic acid | 1.1 ± 0.2 $^{a}$ | 0.8 ± 0.1 $^{a}$ | 0.5 ± 0.1 $^{b}$ |
| Glutamic acid | 2.6 ± 0.6 $^{a}$ | 2.5 ± 0.4 $^{a}$ | 1.3 ± 0.2 $^{b}$ |
| Serine | 2.9 ± 1.0 $^{a}$ | 2.9 ± 0.3 $^{a}$ | 1.6 ± 0.3 $^{a}$ |
| Histidine | 0.8 ± 0.1 $^{b}$ | 1.4 ± 0.2 $^{a}$ | 0.7 ± 0.3 $^{b}$ |
| Glycine | 4.1 ± 1.9 $^{a}$ | 3.0 ± 0.3 $^{a}$ | 1.8 ± 0.6 $^{a}$ |
| Threonine | 1.9 ± 0.5 $^{ab}$ | 2.1 ± 0.2 $^{a}$ | 1.1 ± 0.2 $^{b}$ |
| Arginine | 3.4 ± 1.0 $^{b}$ | 6.5 ± 0.7 $^{a}$ | 4.0 ± 1.2 $^{b}$ |
| Alanine | 3.3 ± 1.2 $^{a}$ | 3.6 ± 0.4 $^{a}$ | 2.2 ± 0.3 $^{a}$ |
| Tyrosine | 2.4 ± 0.6 $^{a}$ | 3.3 ± 0.5 $^{a}$ | 2.3 ± 0.3 $^{a}$ |
| Valine | 1.9 ± 0.2 $^{b}$ | 2.6 ± 0.3 $^{a}$ | 1.3 ± 0.2 $^{b}$ |
| Methionine | 0.6 ± 0.0 $^{b}$ | 0.9 ± 0.1 $^{a}$ | 0.6 ± 0.1 $^{b}$ |
| Phenylalanine | 1.4 ± 0.3 $^{a}$ | 5.0 ± 0.7 $^{c}$ | 3.2 ± 0.6 $^{b}$ |
| Isoleucine | 1.4 ± 0.3 $^{b}$ | 2.9 ± 0.3 $^{a}$ | 1.7 ± 0.2 $^{b}$ |
| Leucine | 3.4 ± 1.5 $^{b}$ | 8.1 ± 1.0 $^{a}$ | 4.8 ± 1.2 $^{b}$ |
| Lysine | 8.0 ± 7.2 $^{a}$ | 6.5 ± 0.5 $^{a}$ | 3.9 ± 1.3 $^{a}$ |

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