**Minimal processed infant formula *vs* conventional shows comparable protein quality and increased postprandial plasma amino acid kinetics in rats**

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**Supplementary Tables and Figures**

**Supplemental Table 1.** Amino acid composition and nitrogen content of T+++ and T- diets given to rats

|  |  |  |
| --- | --- | --- |
|  | **T+++ diets** | **T- diets** |
| **Indispensable amino acid (mg/g DM)** |
| Histidine | 4.7 | 4.8 |
| Isoleucine | 8.3 | 8.6 |
| Leucine | 15.4 | 15.8 |
| Lysine | 13.4 | 13.8 |
| Methionine | 3.5 | 3.6 |
| Phenylalanine | 7.0 | 7.3 |
| Threonine | 7.0 | 7.2 |
| Tryptophan | 2.5 | 2.5 |
| Valine | 9.1 | 9.4 |
| **Dispensable amino acid (mg/g DM)**  |
| Alanine | 4.8 | 4.9 |
| Arginine | 5.0 | 5.1 |
| Asx | 12.3 | 12.6 |
| Cysteine | 1.1 | 1.1 |
| Glx | 29.9 | 31.1 |
| Glycine | 2.4 | 2.4 |
| Proline | 13.6 | 14.0 |
| Serine | 8.6 | 8.6 |
| Tyrosine | 6.9 | 7.2 |
| **N (%)** | 2.43 | 2.45 |

*Asx, aspartate + asparagine; Glx, glutamate + glutamine.*

**Supplemental Table 2.** Amino acid composition of T+++ and T- infant formula

|  |  |  |
| --- | --- | --- |
|  | **T+++** | **T-** |
| **Indispensable amino acid (g/100 g protein\*)** |
| Histidine | 2.4 | 2.2 |
| Isoleucine | 5.4 | 5.1 |
| Leucine | 11.3 | 10.7 |
| Lysine | 9.4 | 8.9 |
| Methionine | 4.0 | 3.5 |
| Phenylalanine | 4.3 | 4.1 |
| Threonine | 4.9 | 4.6 |
| Tryptophan | 1.8 | 1.8 |
| Valine | 5.8 | 5.6 |
| **Dispensable amino acid (g/100 g protein\*)**  |
| Alanine | 4.2 | 4.0 |
| Arginine | 3.0 | 2.8 |
| Asx | 10.2 | 9.7 |
| Cysteine | 3.1 | 2.2 |
| Glx | 18.5 | 17.4 |
| Glycine | 2.0 | 1.9 |
| Proline | 7.3 | 6.9 |
| Serine | 4.9 | 4.6 |
| Tyrosine | 3.9 | 3.7 |

*\* protein content = N x 6.38. Asx, aspartate + asparagine; Glx, glutamate + glutamine.*

**Supplemental Table 3.** Cecal endogenous amino acid losses determined in 6 h after protein-free meal intake.

|  |
| --- |
| **Endogenous losses (mg)** |
| **Indispensable amino acids** |
| Histidine | 0.5 ± 0.1 |
| Isoleucine | 1.4 ± 0.3 |
| Leucine | 1.8 ± 0.4 |
| Lysine | 1.9 ± 0.4 |
| Methionine | 0.6 ± 0.1 |
| Phenylalanine | 1.0 ± 0.2 |
| Threonine | 1.4 ± 0.4 |
| Tryptophan | 0.4 ± 0.1 |
| Valine | 1.6 ± 0.3 |
| **Dispensable amino acids** |
| Alanine | 1.6 ± 0.4 |
| Arginine | 1.2 ± 0.3 |
| Asx | 2.8 ± 0.7 |
| Cysteine | 0.2 ± 0.0 |
| Glx | 4.0 ± 0.9 |
| Glycine | 0.9 ± 0.2 |
| Proline | 1.0 ± 0.3 |
| Serine | 1.6 ± 0.4 |
| Tyrosine | 1.0 ± 0.2 |

*Values are means ± SD, with n = 8. Asx, aspartate + asparagine; Glx, glutamate + glutamine.*