**Supplementary Table 1.** Effects of dietary supplementation with NCG on serum amino acids in Rex rabbits\*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item | NCG supplementation, % | | | | SEM | *P*-value† | |
| 0 | 0.04 | 0.08 | 0.12 | Linear | Quadratic |
| Aspartate | 39.70 | 42.96 | 41.73 | 42.63 | 3.14 | 0.52 | 0.55 |
| Threonine | 21.47 | 24.13 | 24.36 | 22.56 | 1.68 | 0.52 | 0.08 |
| Serine | 19.08 | 20.17 | 19.89 | 20.60 | 1.71 | 0.44 | 0.88 |
| Glutamate | 56.07 | 61.99 | 60.30 | 59.96 | 4.07 | 0.45 | 0.29 |
| Glycine | 12.76 | 12.97 | 12.81 | 13.02 | 0.64 | 0.77 | 0.99 |
| Alanine | 25.38 | 26.15 | 27.00 | 26.38 | 1.91 | 0.53 | 0.61 |
| Valine | 25.29 | 26.74 | 24.66 | 24.16 | 1.56 | 0.28 | 0.39 |
| Methionine | 3.67 | 3.87 | 3.78 | 3.63 | 0.27 | 0.80 | 0.38 |
| Isoleucine | 10.34 | 10.79 | 10.82 | 10.77 | 0.77 | 0.59 | 0.65 |
| Leucine | 39.15 | 42.42 | 44.33 | 40.99 | 2.65 | 0.39 | 0.09 |
| Tyrosine | 28.39 | 28.62 | 27.71 | 27.09 | 2.22 | 0.50 | 0.79 |
| Lysine | 48.39 | 51.00 | 52.37 | 45.06 | 3.28 | 0.42 | 0.08 |
| Histidine | 15.81 | 16.91 | 16.33 | 15.05 | 1.12 | 0.43 | 0.15 |

NCG, N-carbamylglutamate.

\*Data are means of 12 rabbits per treatment.

†Linear and quadratic effects of NCG levels.

**Supplementary Table 2.** Effects of dietary supplementation with NCG on growth performance in Rex rabbits\*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item | NCG supplementation, % | | | | SEM | *P*-value† | |
| 0 | 0.04 | 0.08 | 0.12 | Linear | Quadratic |
| Initial BW, g | 1700.75 | 1694.85 | 1691.13 | 1698.20 | 7.73 | 0.64 | 0.24 |
| Final BW, g | 2705.53 | 2725.65 | 2765.78 | 2749.68 | 38.09 | 0.15 | 0.50 |
| ADG, g/d | 16.75 | 17.18 | 17.91 | 17.52 | 0.63 | 0.12 | 0.36 |
| F/G | 10.49 | 10.17 | 9.69 | 10.02 | 0.41 | 0.15 | 0.26 |

ADG, average daily gain; F/G, the ratio of daily feed intake to ADG; NCG, N-carbamylglutamate.

\*Data are means of 40 rabbits per treatment;

†Linear and quadratic effects of NCG levels.