**Supplemental Table 1: Ingredients and contents of indispensable amino acids in the experimental diets**

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|  | **Control Diet** | **Baked Salmon Diet** |
| Ingredients (g/kg diet) |  |  |
|  Casein protein1 | 216.2 | 162.2 |
|  Freeze dried baked salmon2  | - | 100.0 |
|  Cornstarch | 512.0 | 466.0 |
|  Sucrose | 90.0 | 90.0 |
|  Cellulose | 50.0 | 50.0 |
|  Soybean Oil | 70.0 | 70.0 |
|  t-Butylhydroquinone | 0.014 | 0.014 |
|  Mineral Mix (AIN-93-MX) | 35.0 | 35.0 |
|  Vitamin Mix (AIN-93-VX) | 10.0 | 10.0 |
|  L-Methionine | 1.60 | 1.60 |
|  L-Cystine | 3.0 | 3.0 |
|  Choline Bitartrate3  | 2.5 | 2.5 |
|  Growth and Maintenance Supplement4 | 10.0 | 10.0 |
| Amino acids (g/kg diet) |  |  |
|  Arginine | 6.4 | 7.9 |
|  Histidine | 5.1 | 5.6 |
|  Isoleucine | 9.2 | 10.0 |
|  Leucine | 16.0 | 17.0 |
|  Lysine | 14.0 | 16.0 |
|  Methionine | 6.4 | 7.6 |
|  Phenylalanine | 9.1 | 9.7 |
|  Threonine | 7.2 | 8.0 |
|  Tryptophan | 2.5 | 2.5 |
|  Valine | 12.0 | 13.0 |

1 contains 92.5 % crude protein
2 contains 50 % crude protein

3 contains 41 % choline
4 contains vitamin B12 (40 mg/kg) and vitamin K1 (25 mg/kg) mixed with sucrose (995 g/kg) and dextrose (5 g/kg).

ND, not detected. Means of two measurements; deviations were <5% between parallels.