Amino acid recommendations for Fish and Shrimp



RECOMMENDATIONS - ATLANTIC SALMON

| Name ^ | | ME, MJ/kg | ME, kcal/kg | NE, MJ/kg | NE, kcal/kg | Lys | Met | Met+Cys | Thr | Тгр | Arg | lle | Leu | Val | His |
|------------------------|---|-----------|-------------|-----------|-------------|------|------|---------|------|------|------|------|------|------|------|
| 5-50 g Body Weight | e | - | - | - | - | 3.40 | 1.54 | 2.31 | 2.32 | 0.91 | 3.04 | 2.23 | 3.47 | 2.57 | 1.70 |
| 50-100 g Body Weight | e | - | - | - | - | 3.13 | 1.42 | 2.13 | 2.14 | 0.85 | 2.80 | 2.05 | 3.20 | 2.36 | 1.56 |
| 100-500 g Body Weight | e | - | - | - | - | 3.14 | 1.43 | 2.17 | 2.19 | 0.97 | 2.78 | 2.10 | 3.17 | 2.34 | 1.57 |
| 500-1500 g Body Weight | e | - | - | - | - | 2.71 | 1.24 | 1.90 | 1.93 | 0.95 | 2.36 | 1.86 | 2.70 | 1.99 | 1.35 |
| >1500 g Body Weight | e | - | - | - | - | 2.55 | 1.16 | 1.80 | 1.82 | 0.93 | 2.21 | 1.76 | 2.53 | 1.86 | 1.27 |



RECOMMENDATIONS - RAINBOW TROUT

| Name ^ | | ME, MJ/kg | ME, kcal/kg | NE, MJ/kg | NE, kcal/kg | Lys | Met | Met+Cys | Thr | Тгр | Arg | lle | Leu | Val | His |
|-----------------------|---|-----------|-------------|-----------|-------------|------|------|---------|------|------|------|------|------|------|------|
| 5-50 g Body Weight | e | - | - | - | - | 2.80 | 1.17 | 1.73 | 1.81 | 0.70 | 2.52 | 1.81 | 2.80 | 2.00 | 1.08 |
| 50-100 g Body Weight | e | - | - | - | - | 2.72 | 1.14 | 1.70 | 1.78 | 0.70 | 2.46 | 1.77 | 2.75 | 1.96 | 1.05 |
| 100-500 g Body Weight | e | - | - | - | - | 2.44 | 1.04 | 1.58 | 1.63 | 0.67 | 2.23 | 1.60 | 2.52 | 1.79 | 0.96 |
| >500 g Body Weight | e | - | - | - | - | 2.20 | 0.91 | 1.35 | 1.42 | 0.54 | 1.97 | 1.42 | 2.19 | 1.56 | 0.84 |



RECOMMENDATIONS - NILE TILAPIA

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| Name ^ | | ME, MJ/kg | ME, kcal/kg | NE, MJ/kg | NE, kcal/kg | Lys | Met | Met+Cys | Thr | Тгр | Arg | lle | Leu | Val | His | Phe+Tyr | Gly Equiv. |
|----------------------|---|-----------|-------------|-----------|-------------|------|------|---------|------|------|------|------|------|------|------|---------|------------|
| 5-50 g Body Weight | e | - | - | - | - | 1.96 | 0.82 | 1.32 | 1.30 | 0.40 | 1.78 | 1.22 | 1.64 | 1.37 | 0.80 | - | - |
| 50-500 g Body Weight | e | - | - | - | - | 1.78 | 0.74 | 1.19 | 1.19 | 0.35 | 1.62 | 1.10 | 1.48 | 1.24 | 0.72 | - | - |
| >500 g Body Weight | e | - | - | - | - | 1.67 | 0.69 | 1.12 | 1.11 | 0.33 | 1.51 | 1.03 | 1.39 | 1.17 | 0.68 | - | - |



| RECOMMENDA | RECOMMENDATIONS - COMMON CARP | | | | | | | | | | | | | | | Q | |
|----------------------|-------------------------------|-----------|-------------|-----------|-------------|------|------|---------|------|------|------|------|------|------|------|---------|-----------|
| Name ^ | | ME, MJ/kg | ME, kcal/kg | NE, MJ/kg | NE, kcal/kg | Lys | Met | Met+Cys | Thr | Тгр | Arg | lle | Leu | Val | His | Phe+Tyr | Gly Equiv |
| 5-50 g Body Weight | e | - | - | - | - | 2.30 | 1.10 | 1.40 | 1.40 | 0.50 | 2.00 | 1.50 | 2.20 | 1.50 | 1.00 | - | - |
| 50-500 g Body Weight | e | - | - | - | - | 2.10 | 1.00 | 1.30 | 1.30 | 0.50 | 1.80 | 1.40 | 2.00 | 1.40 | 0.90 | - | - |
| >500 g Body Weight | e | - | - | - | - | 2.00 | 1.00 | 1.30 | 1.20 | 0.50 | 1.70 | 1.30 | 1.90 | 1.30 | 0.90 | - | - |



RECOMMENDATIONS - WHITELEG SHRIMP

| | Name ^ | | ME, MJ/kg | ME, kcal/kg | NE, MJ/kg | NE, kcal/kg | Lys | Met | Met+Cys | Thr | Тгр | Arg | lle | Leu | Val | His | F |
|--|---------------------|---|-----------|-------------|-----------|-------------|------|------|---------|------|------|------|------|------|------|------|---|
| | 1-10 g Body Weight | e | - | - | - | - | 2.23 | 0.99 | 1.41 | 1.55 | 0.42 | 2.55 | 1.30 | 2.27 | 1.49 | 0.92 | |
| | 10-20 g Body Weight | e | - | - | - | - | 2.01 | 0.93 | 1.31 | 1.31 | 0.40 | 1.99 | 1.04 | 1.75 | 1.15 | 0.73 | |
| | >20 g Body Weight | e | - | - | - | - | 1.84 | 0.88 | 1.23 | 1.14 | 0.38 | 1.60 | 0.86 | 1.39 | 0.92 | 0.59 | |



