**Table S1. Protein metabolism data for fish at 14-16°C.** Mass-corrected whole–animal absolute rates of protein consumption (Ar, mg protein d-1) and protein synthesis (As, mg protein d-1) for juveniles of various fish species at 14-16⁰C. Data presented or calculated from the original source have been mass-corrected to a standard mass of 12 g according to Hawkins et al. [37].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Mass (g)** | **T°C** | **Ration** | **Ar\*** | **As\*** | **Reference** |
| **Flounder1** | 11.6 | 14 | 4% BM d-1, Natural food, 7.3% Protein | 23.5 | 26.0 | Present study1 |
| ***Platichthys flesus*** | 13.7 | 14 | 4% BM d-1, Natural food, 7.3% Protein  | 23.9 | 26.3 | Present study1 |
|  | 26.7 | 14.9 | 2% BM d-1, Formulated food, 40.9% Protein | 42.9 | 55.4 | Carter et al. [38] 1 |
| **Greenback Flounder1** | 39 | 16 | 1% BM d-1, Formulated food, 48.3% Protein | 67.7 | 69.2 | Carter and Bransden [58] 1 |
| ***Rhombosolea tapirina*** | 37 | 16 | 2% BM d-1, Formulated food, 48.3% Protein | 123.7 | 149.6 | Carter and Bransden [58]1 |
| **Rainbow trout2** | 100 | 14 | 1% BM d-1, Formulated food, 43.3% Protein | 61.8 | 79.5 | Carter et al. [39] 1 |
| ***Oncorhynchus mykiss*** | 100 | 14 | 1% BM d-1, Formulated food, 43.3% Protein | 62.4 | 71.8 | Carter et al. [39] 1 |
|  | 305 | 14 | 2.7% BM d-1, Formulated food, 47.0% Protein | 174.0 | 169.7 | Dobley et al. [70]1 |
| **Atlantic salmon2** | 283 | 14 | 2% BM d-1, Formulated food, 47.4% Protein | 107.5 | 106.5 | Carter et al. [24] 2 |
| ***Salmo salar*** |  |  |  |  |  |  |

BM = Body Mass

\* – corrected to a standard mass of 12 g.

1 – protein synthesis measured 15N-labelled protein (see Carter et al. [39])

2 – protein synthesis measured using 3H-phenylalanine (see Houlihan et al. [28])

70. Dobley A, Martin, SAM, Blaney SC, Houlihan DF**.** Protein growth rate in rainbow trout (*Oncorhynchus mykiss*) is negatively correlated to liver 20S

 proteasome activity. Comp Biochem Physiol A. 2003, 137: 75-85