

Supplementary Material

1 Supplementary Figures

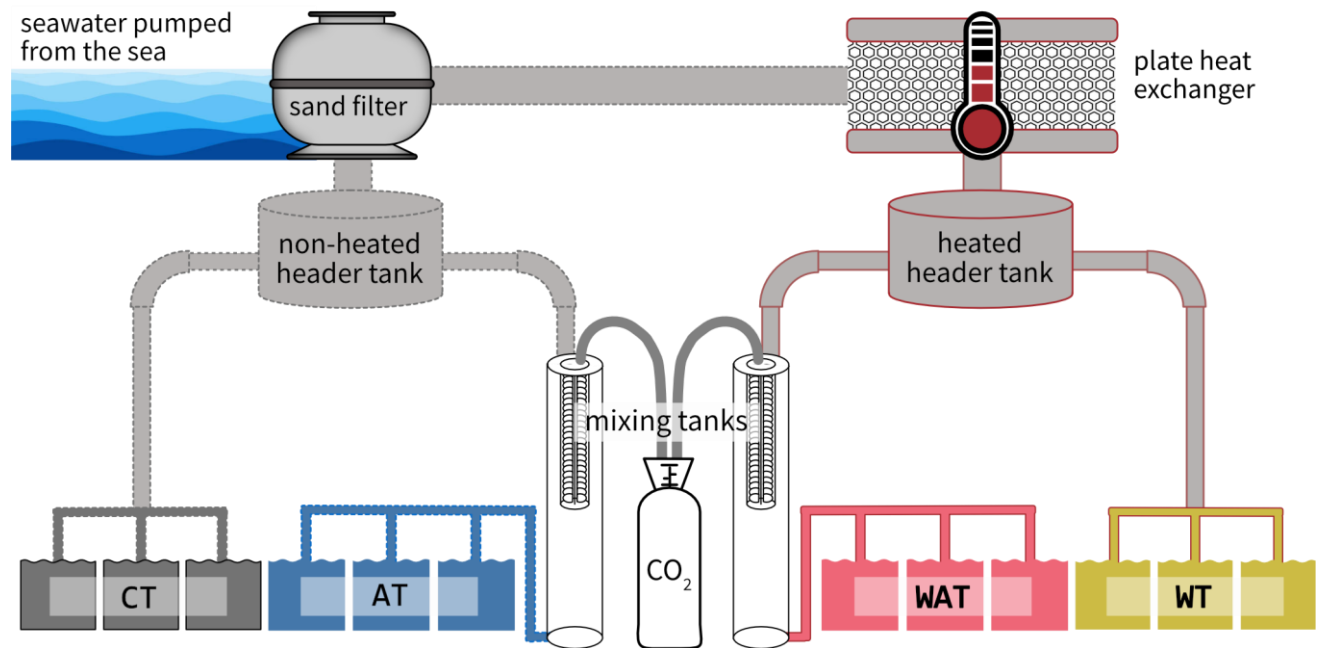
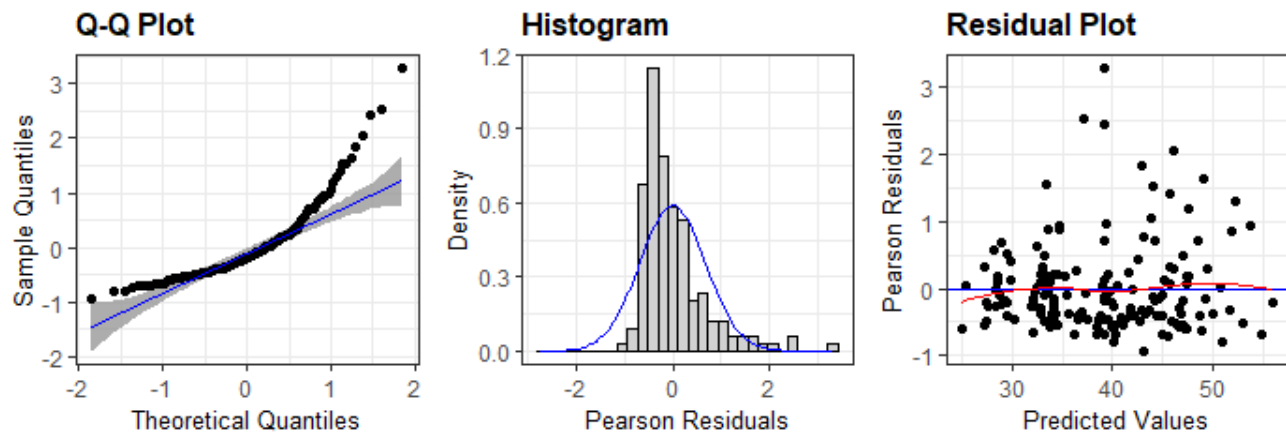


Figure S1. Simplified scheme showing the heating and acidification systems used for rearing of juvenile *Dicentrarchus labrax*. CT: control treatment; AT: acidified treatment; WT: warmed treatment; WAT: warmed and acidified treatment.

A



B

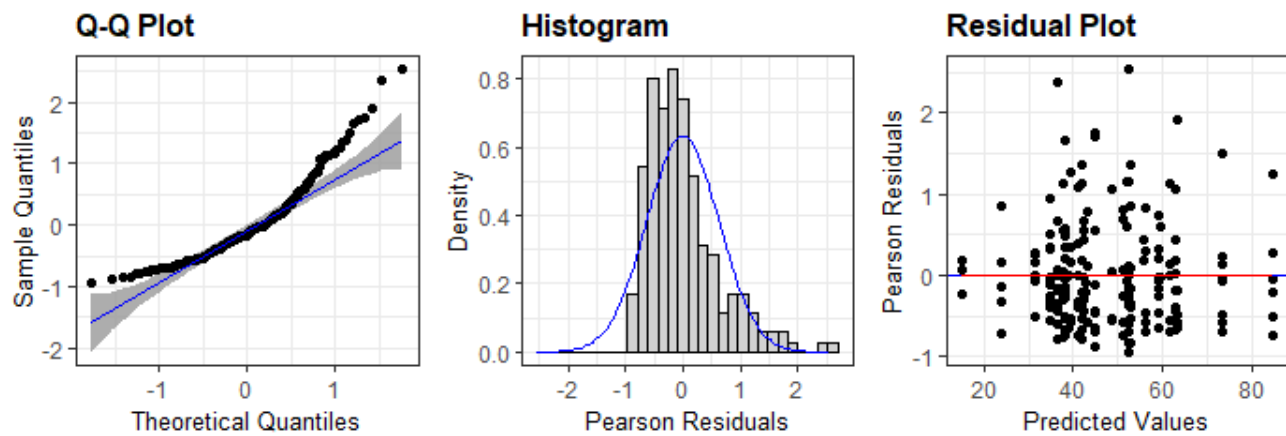
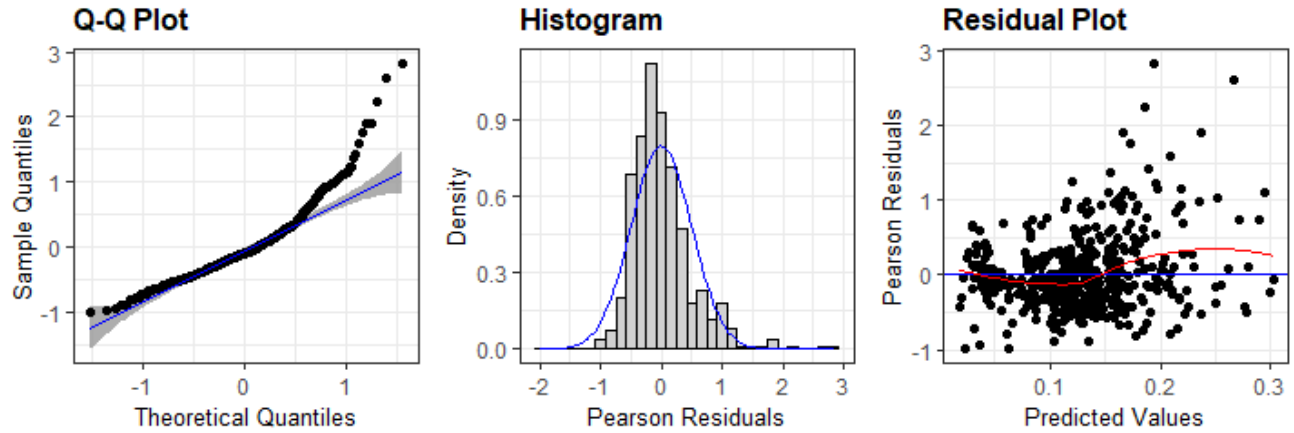


Figure S2. Residual panel used to validate model1 which addressed the cumulative distance travelled (Dtot) by juvenile *Dicentrarchus labrax* during (A) the visual tests or (B) the mechano-acoustic tests. Dtot was measured during the whole duration of the behavioural test, either 4 minutes for the visual tests or 4.5 minutes for the mechano-acoustic tests; individual Dtot was standardized by individual body length.

A



B

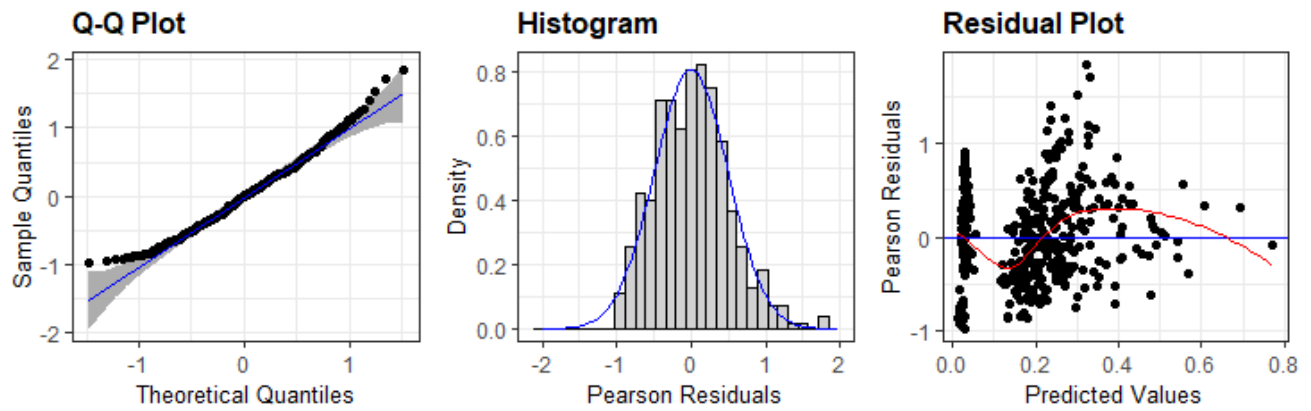


Figure S3. Residual panel used to validate model2 which addressed mean swimming velocity (V_{mean}) in juvenile *Dicentrarchus labrax* during (A) the visual tests or (B) the mechano-acoustic tests. V_{mean} was standardised by total body length.