

Figure S1. Probiotics improves intestinal motility in loperamide-induced constipation.

(A-F) Lateral images of the fluorescent tracer in the intestinal tract of zebrafish larvae. Scale bar: 100 μ m. (G) Comparison of the number of intestinal contraction in zebrafish larvae. n=27 for control, *B. longum*, loperamide group. n=11 for *L. rhamnosus* group. n=14 for loperamide/ *B. longum*, n=12 for loperamide/ *L. rhamnosus* group. One-way ANOVA with Tukey's multiple comparison test. ns, not significant; ****, p < 0.0001.

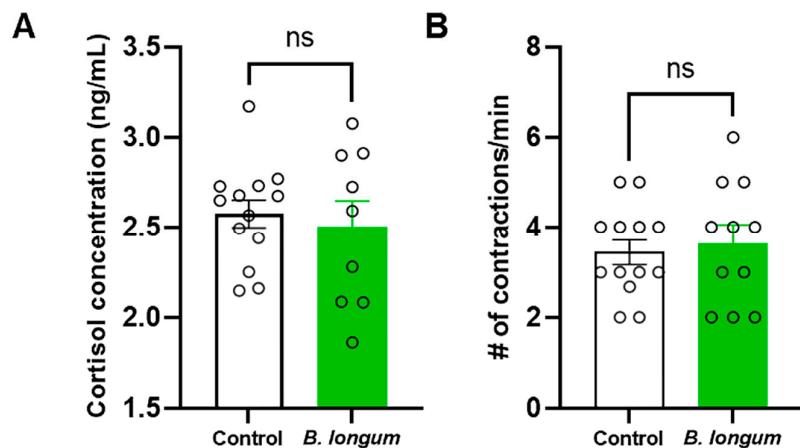


Figure S2. The effect of *B. longum* on non-stressed zebrafish larvae (A) Comparison of cortisol concentration between the non-stressed fish fed with *B. longum* and those fed without *B. longum*. n=13 for Control, n=9 for *B. longum* (B) Comparison of the number of intestinal contractions in zebrafish larvae. n=13 for Control, n=11 for *B. longum*. ns, not significant.