

Supplementary Table 1. Cytokines contents in the plasma of turbot.

Treatments	TNF- α (pg/mL)	IL-1 β (pg/mL)	TGF- β 1 (pg/mL)
CNT	50.24 \pm 0.55 ^a	27.31 \pm 0.65 ^a	47.49 \pm 0.80 ^a
HSD	68.74 \pm 0.87 ^b	36.92 \pm 0.62 ^b	35.01 \pm 0.81 ^b
HSDG	52.61 \pm 0.63 ^a	29.33 \pm 0.77 ^a	44.83 \pm 0.67 ^a

Note: Values are displayed as means \pm standard error, n = 6; Different superscripted small letters in the same column mean significant difference ($P < 0.05$).