

Table 4 Digestive enzyme activity (Total activity \pm S.E.) in the gut of common carp fed experimental diets

	Pancreas	Intestinal segments		
		I	II	III
Amylase activity				
T ₀	0.71* \pm 0.02 ^a	2.36 \pm 0.40 ^d	0.59 \pm 0.06 ^b	0.52 \pm 0.02 ^b
T ₁	0.75 \pm 0.03 ^a	1.56 \pm 0.20 ^c	0.57 \pm 0.08 ^b	0.29 \pm 0.01 ^a
T ₂	0.89 \pm 0.07 ^b	1.40 \pm 0.08 ^c	0.59 \pm 0.03 ^b	1.23 \pm 0.06 ^c
T ₃	0.82 \pm 0.03 ^b	1.06 \pm 0.04 ^b	0.71 \pm 0.02 ^c	0.59 \pm 0.09 ^b
T ₄	1.04 \pm 0.05 ^c	0.74 \pm 0.04 ^a	0.27 \pm 0.05 ^a	0.53 \pm 0.04 ^b
Protease activity				
T ₀	35.23 \pm 0.56 ^a	98.71 \pm 0.52 ^a	98.71 \pm 0.43 ^b	79.35 \pm 0.80 ^a
T ₁	85.55 \pm 0.45 ^b	156.78 \pm 0.46 ^c	119.03 \pm 0.60 ^d	124.65 \pm 0.62 ^c
T ₂	86.70 \pm 0.34 ^b	130.65 \pm 0.42 ^b	92.26 \pm 0.81 ^b	165.48 \pm 0.76 ^d
T ₃	107.87 \pm 0.22 ^c	99.55 \pm 0.31 ^a	107.43 \pm 0.12 ^c	92.90 \pm 0.52 ^b
T ₄	125.03 \pm 0.78 ^d	164.90 \pm 0.61 ^c	72.97 \pm 0.053 ^a	76.77 \pm 0.46 ^a
Lipase activity				
T ₀	45.0 \pm 1.2 ^b	50.0 \pm 0.9 ^b	45.0 \pm 1.1 ^c	45.0 \pm 0.8 ^c
T ₁	50.0 \pm 1.4 ^c	45.0 \pm 0.8 ^a	40.0 \pm 0.5 ^b	35.0 \pm 0.7 ^b
T ₂	60.0 \pm 1.5 ^d	50.0 \pm 0.8 ^b	30.0 \pm 0.4 ^a	45.0 \pm 0.5 ^c
T ₃	40.0 \pm 0.9 ^a	45.0 \pm 1.1 ^a	40.0 \pm 0.6 ^b	35.0 \pm 0.4 ^b
T ₄	40.0 \pm 0.8 ^a	45.0 \pm 0.6 ^a	30.0 \pm 0.8 ^a	25.0 \pm 0.5 ^a

Note: *Enzyme units/g tissue

Values with different superscripts in the same column indicate significant ($P \leq 0.05$) difference