

Table 2

Comparative study of enzyme (CK, LDH, PDH, and α -KGDH) activities and substrate (CrP, ATP and L-carnitine) content in the left ventricular myocardium in feed restricted slow-growing broilers (Broiler-Res, low risk of heart failure), *ad libitum* fed fast-growing broilers (Broiler-AL, high risk of heart failure) and broilers with congestive heart failure and ascites (Broiler-CHF)

Parameter ^a	Broiler-Res	Broiler-AL	Broiler-CHF	ANOVA
ATP	1.641±0.097 ^b	1.353±0.108 ^{ab}	1.056±0.096 ^a	$p < 0.005$
CrP	1.072±0.050 ^b	1.061±0.019 ^b	0.764±0.014 ^a	$p < 0.001$
L-carnitine	0.42±0.093 ^b	0.28±0.09 ^{ab}	0.17±0.011 ^a	$p < 0.04$
CK	12.692±0.565 ^a	16.182±0.022 ^b	15.180±0.284 ^b	$p < 0.02$
LDH	2.282±0.126	2.360±0.099	2.550±0.071	$p = 0.19$
α -KGDH	0.848±0.053	0.911±0.049	0.941±0.044	$p = 0.41$
PDH	0.348±0.015 ^b	0.260±0.013 ^a	0.435±0.007 ^c	$p < 0.005$

Values are means±SE of 5 samples for ATP, CrP, CK, LDH, α -KGDH and PDH, and 4 for L-carnitine. Means within rows with different superscripts are significantly different ($p < 0.05$).

^a Units: ATP and CrP ($\mu\text{g}/\text{mg}$ of heart tissue); L-carnitine ($\mu\text{M}/\text{mg}$ heart tissue); CK, and LDH, activities ($\text{OD}/\text{min}/\text{mg}$ heart tissue); α -KGDH, and PDH activities ($\text{OD}/\text{min}/\text{g}$ heart tissue).