

The statistical methods of this study were reviewed by SPSS 18.0 software. Gray value analyses were used to photographic film strip by Tanon Gis software and the ratio of target strip and the internal reference strip represented the protein expression levels of target genes. The difference of HIF-1 $\alpha$ , associated glycolysis enzymes, activities of HK and LDH and lactic acid concentration among multiple groups was analyzed using F test and indicators between two groups used the Student *t*-test or *t*'-test.  $P < 0.05$  was considered statistically significant.