

## 喜马拉雅山拨鼠非冬眠期乳酸脱氢酶同工酶基因表达特征

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收稿日期 修回日期 网络版发布日期 接受日期

**摘要** 用聚丙烯酰胺凝胶电泳和紫外光谱法分析非冬眠期喜马拉雅土拨鼠4种组织的乳酸脱氢酶(LDH)同工酶的酶谱及其活力, 该鼠骨骼肌酶带的多态分布, 可能是潜在的调节基因调控所致。另外, 本文还对构象异构体产生的亚带进行了研讨。

**关键词** [喜马拉雅土拨鼠, 乳酸脱氢酶, 同工酶, 多态, 构象异构体](#)

分类号

## Characterization of the Expression of LDH Isozymes Genes During Non-hibernation Himalayan Marmot

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### Abstract

The lactate dehydrogenase (LDH) isozymes from heart, liver, kidney and skeletal muscle in Himalayan marmot (*Marmota himalayana robusta*) in non-hibernation were investigated in the present experiment. The isozyme patterns were analyzed by means of disc electrophoresis and the ultraviolet enzymatic determination. The following conclusions were obtained: 1. It was found that two expression patterns of LDH genes presented in the skeletal muscle of Himalayan marmot. There was a LDH-B4 band only in one marmot and absent in others. The interindividual polymorphism of LDH isozyme patterns may be attributed to one or more regulator genes controlling synthesis of B-subunit of LDH. 2. LDH zymograms of various tissues of Himalayan marmot showed different subbands. This is presumably due to the existence of both symmetrical and asymmetrical conformers of this tetramer.

**Key words** [Himalayan marmot](#) [Lactate dehydrogenase\(LDH\)](#) [isozyme](#) [Polymorphism](#) [Conformer](#)

DOI:

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