

论著

## 广西人芽囊原虫分离株同工酶谱的初步分析

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摘要

目的 观察广西人芽囊原虫分离株的苹果酸脱氢酶(MDH)和碱性磷酸酶(ALP)同工酶谱特征。方法 从感染者粪便中分离人芽囊原虫, 体外培养, 收集虫体, 制备电泳样品。采取不连续性聚丙烯酰胺凝胶垂直板状电泳分离同工酶的不同区带, 以苹果酸钠和1-萘酚磷酸钠盐为特异性底物, 氯化硝基四氮唑蓝(NBT)和固蓝RR盐为染色剂, 分别对MDH和ALP染色, 以相对迁移率标记酶带。结果 人芽囊原虫10个分离株在MDH酶谱中, 共出现7条酶带, 常见的酶带有Rm34、Rm47、Rm51、Rm55和Rm59, 10个分离株完全一致的酶带有Rm34和Rm51; 在ALP酶谱中共出现5条酶带, Rm22、Rm25、Rm28、Rm35和Rm38。各分离株之间的MDH和ALP同工酶谱均存在差异。结论 MDH和ALP同工酶谱能反映人芽囊原虫各分离株之间的遗传差异。

关键词 [人芽囊原虫](#); [同工酶](#); [电泳](#)

分类号

## Isoenzyme Patterns of the Isolates of *Blastocystis hominis* from Guangxi

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Abstract

Objective To observe malate dehydrogenase and alkaline phosphatase patterns of ten isolates of *Blastocystis hominis* (Bh) from Guangxi. Methods *Blastocystis hominis* agents were isolated from the fecal specimens of patients and cultivated in vitro. The samples were prepared for polyacrylamide gel slab electrophoresis (PAGSE). Sodium malate and 1-Naphthyl phosphoric acid sodium were used as substrates. NBT and fast blue RR salt were used to stain MDH and ALP respectively. The isoenzyme bands were recorded with relative mobility (Rm). Results Among the 10 isolates, 7 MDH bands were found, more with Rm34, Rm47, Rm51, Rm55, and Rm59. All the isolates showed Rm34 and Rm51 bands. 5 bands showed ALP patterns: Rm22, Rm25, Rm28, Rm35, and Rm38. Difference existed with the MDH and ALP patterns among the isolates. Conclusion MDH and ALP patterns may indicate a genetic difference among the isolates, which might play a role in its classification.

Key words

[Blastocystis hominis](#); [Isoenzyme](#); [Electrophoresis](#)

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