

论著

隐孢子虫种株的RAPD分析

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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

目的 对鼠隐孢子虫 (Cryptosporidium muris)、小球隐孢子虫 (Cryptosporidium parvum)和火鸡隐孢子虫 (Cryptosporidium meleagridis) 3个种 8个虫株进行随机扩增多态性DNA (RAPD)分析。方法 从200个引物中选用重复性较好的26个引物对所有虫株进行随机扩增。结果 RAPD分析结果表明:①在隐孢子虫不同种 (C muris、C parvum和C meleagridis)之间的基因存在明显的差异,平均遗传距离为7.037;②同种不同分离株之间均有一定差异,平均遗传距离为5.162。结论 RAPD技术能鉴别8个隐孢子虫分离株共有和各自特有基因片段。

关键词 [隐孢子虫](#) [RAPD](#) [遗传距离](#)

分类号

Random Amplified Polymorphic DNA Analysis of Cryptosporidium Species and Strains

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Abstract

Objective To analyse the genetic heterogeneity of 8 isolates of Cryptosporidium belonging to three species (Cryptosporidium muris, Cryptosporidium parvum and Cryptosporidium meleagridis) using RAPD technique. Methods DNA extracts of the 8 isolates were amplified by PCR using 26 out of 200 primers. The amplified products were separated by agar electrophoresis followed by staining with ethidium bromide. Results RAPD analysis revealed: ① Obvious differences among species were found, the average genetic distance being 7.037; ② Certain differences among different isolates of the same species were found, the average genetic distance being 5.162. Conclusion RAPD could differentiate the common and respective gene fragments of the 8 isolates of Cryptosporidium .

Key words [Cryptosporidium](#) [RAPD](#) [genetic distance](#)

DOI :

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