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实验研究

浙江省周期型马来丝虫等位基因酶谱研究

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摘要

目的:研究浙江省周期型马来丝虫等位基因酶谱。方法:用微量平面淀粉凝胶电泳法,检测浙江省周期型马来丝虫成虫180 条(雌60,雄120),微丝蚴0.4 m l(约32 000 条)及感染期幼虫约1 500条的Acph 等14 种酶的同工酶的等位基因酶谱。结果:浙江省周期型马来丝虫的3 个生活期虫体呈现13 种酶的同工酶的27个等位基因位点,多数位点为纯合子型,仅2 个位点(MPI,MDH-2)为杂合子型(占7.4%)。成虫、微丝蚴及感染期幼虫分别呈现16、16 及9 个等位基因位点。同时用相同的方法对实验室传代的周期型马来丝虫等位基因酶谱进行比较检测。结论:浙江省与实验室传代的周期型马来丝虫的同工酶等位基因酶谱基本相似

关键词 周期型马来丝虫 等位基因酶谱 淀粉凝胶电泳

分类号

STUDIES ON ALLELIC ZYMOGRAM OF PERIODIC BRUGIA MALAYI FROM ZHEJIANG PROVINCE

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Abstract

AIM:To study the allelic zymogram of periodic B.malayi from Zhejiang Province. METHODS:180 adult worms(60,♀120),32 000 microfilaria and 1 500 infective larvae of periodic B.malayi were examined for the isoenzymes of 14 enzymes by horizontal starch gel electrophoresis with 14 different isomyme.RESULTS:Twenty seven allelic loci were found in three developing stages of B. malayi , most of them were homozygotes,however, two of them(MPI,MDH)were heterozygotes(7.4%).17,19 and 9 loci were presented in adult worms,microfilariae and infective larvae, respectively.At the same time, the allelic zymogram of B.malayi from Guizhou Province was also examined.CONCLUSION:The allelic zymogram of periodic B. malayi from Zhejiang Province was similar to that of periodic B. malayi from Guizhou Province but passaged in the laboratory.

Key words Periodic Brugia malayi allelic zymogram horizontal starch gel elctrophoresis

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