

论著

用聚丙烯酰胺凝胶电泳和双向电泳分析阴道毛滴虫滋养体抗原

高兴政, 谭荣安

北京大学基础医学院寄生虫学教研室!北京100083(高兴政);香港大学生物化学系(谭荣安)

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摘要

目的 研究阴道毛滴虫滋养体可溶性抗原。方法 用聚丙烯酰胺凝胶电泳 (SDS-PAGE)、酶联免疫电转移印迹 (EITB)和双向电泳等方法,对阴道毛滴虫滋养体全虫可溶性抗原进行分析。结果 SDS-PAGE分离出 26条蛋白带,其中主带 9条,分子量 8条为 15~62 kDa、1条为 97kDa。EITB显示 24条带,仅在 75 kDa和22 kDa处缺如,其中主带 8条。双向电泳分离出 43个多肽斑点,多分布于 PI3.65~5.84,分子量为 27~>100 kDa,其中有 9个主要多肽斑点。结论 阴道毛滴虫滋养体可溶性抗原 26条蛋白带中,有 8条蛋白含量较高、免疫学反应较强。在 43个多肽斑点中有 9个多肽含量明显较高。

关键词 [阴道毛滴虫](#) [抗原](#) [SDS-PAGE](#) [双向电泳](#)

分类号

Antigen Analysis of *Trichomonas vaginalis* Trophozoite by SDS-PAGE and Two-Dimensional Gel Electrophoresis

GAO Xing-zheng¹, Joseph Wing On Tam²

1 Department of Parasitology; School of Basic Medical Sciences; Peking University; Beijing 100083; 2 Department of Biochemistry; University of Hong Kong; Hong Kong

Abstract

Objective To analyze soluble antigens of *Trichomonas vaginalis*. Methods Soluble antigens of the parasite from a patient suffering from trichomonad vaginitis were analyzed by SDS-PAGE, immunoblotting and two-dimensional gel electrophoresis. Results A total of 26 distinct protein bands were demonstrated by using 10% resolution gel. Nine of them were main bands, eight with MWs 15-62 kDa, one with MW 97 kDa. By immunoblotting the specific anti-*T. vaginalis* antibodies raised in rabbit recognized 24 protein bands with 8 main bands in them. Two-dimensional gel electrophoresis revealed up to 43 individual trichomonad polypeptide spots, among which, 9 were main ones. The pI and MWs of these spots were 3.65-5.84 and 27->100 kDa respectively. Conclusion Eight protein bands out of 26 soluble antigen bands of the parasite showed high immunogenicity. There were 9 main polypeptide spots in 43 polypeptide spots of the parasite.

Key words [Trichomonas vaginalis](#) [antigen](#) [SDS-PAGE](#) [two-dimensional gel electrophoresis](#).

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通讯作者

作者个人主页 高兴政;谭荣安

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