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### 猪带绦虫囊尾蚴与亚洲带绦虫囊尾蚴蛋白双向电泳图谱分析

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### Total Protein Analysis by Two-dimensional Electrophoresis in Cysticerci of *Taenia solium* and *Taenia asiatica*

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**摘要** 将2头20日龄三元杂交乳猪分别感染猪带绦虫虫卵和亚洲带绦虫虫卵,  $8 \times 10^4$ 个/头。感染后40 d分别收集寄生在肝脏的未成熟猪带绦虫囊尾蚴(简称猪囊尾蚴)和亚洲带绦虫囊尾蚴, 制备囊尾蚴蛋白, 并进行蛋白双向电泳分析, 用ImageMaster 2D Platinum 6.0软件分析差异表达蛋白。结果显示, 感染后40 d肝脏寄生的未成熟猪囊尾蚴和亚洲带绦虫囊尾蚴蛋白的双向电泳凝胶上分别有(236±12)和(231±14)个蛋白斑点, 差异表达2倍以上的蛋白共10个, 其中猪囊尾蚴表达上调的蛋白3个, 下调的蛋白7个。

**关键词:** 猪带绦虫 亚洲带绦虫 囊尾蚴 双向电泳 蛋白质组

**Abstract:** Two 20-day-old three-way crossed hybrid pigs were infected with 80 000 *Taenia solium* or *T. asiatica* eggs, respectively. Immature cysticerci of the two species in liver were collected at 40 days after infection. The total proteins were separated by two-dimensional electrophoresis, and differentially expressed proteins were analyzed by ImageMaster 2D Platinum 6.0 software. The results showed that there were (236±12) and (231±14) protein spots in 2D electrophoresis gel images of *T. solium* and *T. asiatica*, respectively, with 3 proteins up-regulated and 7 proteins down-regulated in *T. solium* cysticercus by 2-fold or more compared with those in *T. asiatica* cysticercus.

**Keywords:** *Taenia solium* *Taenia asiatica* Cysticercus Two-dimensional electrophoresis Proteome

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