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间日疟原虫安徽地域株乳酸脱氢酶基因序列同源性分析

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Sequence Homology Analysis on Lactate Dehydrogenase (LDH) of Plasmodium vivax Anhui Isolates

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摘要 采集安徽省蚌埠市区、五河县、怀远县、蒙城县和利辛县2009-2010年的39例间日疟患者血样, 分别提取DNA, PCR扩增间日疟原虫乳酸脱氢酶(PvLDH)基因, 并克隆测序, 以及Blast序列分析。结果显示, 克隆的PvLDH基因片段为951 bp。序列分析发现, 采自安徽地区的39例间日疟患者血样的PvLDH基因序列之间无差异(登录号为GU078391), 与GenBank中其他地域株的PvLDH基因序列同源性均>99%, 氨基酸序列仅分别与EJEU60134株和MIA061251株存在1个氨基酸的差异。

关键词: 间日疟原虫 乳酸脱氢酶 同源性分析

Abstract: DNA in dried blood spots of 39 vivax malaria patients (2009-2010) from Anhui (Bengbu urban district and counties of Wuhe, Huaiyuan, Mengcheng and Lixin) was extracted. The Plasmodium vivax LDH (PvLDH) gene was amplified, cloned and sequenced. The sequences were subjected to NCBI Blast program. The results showed that the targeted DNA fragment size was 951 bp without difference among the 39 samples (accession No. GU078391), and was more than 99% homologous to the PvLDH sequences in other strains from GenBank. There was only one different amino acid in the protein sequences between the isolates from Anhui and EJEU60134 or MIA061251 strains.

Keywords: Plasmodium vivax Lactate dehydrogenase Homology analysis

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