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#### 论文

猪基源的肝素粗品及混淆品的AS-PCR及ARMS分子检测

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摘要:

本文建立了一种简便、准确的鉴别猪基源的肝素粗品及其混淆品的DNA分子鉴定方法。在对家猪、野猪及其他7种 动物(均用于加工猪肝素粗品的混淆品)的mtDNA D-loop区进行序列分析的基础上,设计了专门用于鉴别猪基源肝 素钠的AS-PCR(allele-specific PCR)引物及ARMS(amplification refractory mutation system)引物,对家猪、 野猪及其他7种动物来源的肝素、肌肉或血液共49个样品的基源进行了分子检测。结果表明: AS-PCR及ARMS方 法均可用于猪基源肝素粗品的快速鉴别。AS-PCR鉴别时的复性温度为54~56 ℃,ARMS引物鉴别时的复性温度更 ▶引用本文 宽,为52~58 ℃。在用两种引物对肝素样品进行鉴别时,仅猪来源的肝素DNA模板能扩增得到约170 bp的扩增条 ▶ Email Alert 带,而其他动物来源的肝素DNA模板在同样条件下无扩增产物。

关键词: 猪基源肝素钠 mtDNA D-loop区 AS-PCR ARMS 分子鉴别

Molecular identification of heparin from pigs by allele- specific PCR (AS-PCR) and amplification refractory mutation system (ARMS)

YU Zhi-yong DING Ge; DING Xiao-yu; CHU Bi-hai; QIAN Liang; GU Sun

#### Abstract:

The aim of this study is to develop a convenient and effective method for the identification of heparin from pigs (include Sus scrofa domestica Brisson and Sus scrofa riukiuanus). Based on sequences of Dloop region of pigs and the other animals, two pairs of highly specific primers were designed for distinguishing heparin of pigs from other animals. The primers were employed to amplify D-loop region of DNA templates extracted from pig and seven other animal species that amounted to 49 samples. AS-PCR (allele-specific PCR) and ARMS (amplification refractory mutation system) were all suitable for fast identification of heparin from pig with anneal temperature at 54-56 °C in AS-PCR and with wider anneal temperature in ARMS, at 52-58  $^{\circ}$ C. An about 170 bp DNA fragments were amplified from separately pigs and whereas no DNA fragment was amplified from other samples under the same reaction condition.

Keywords: mtDNA D-loop region AS-PCR ARMS molecular identification heparin of Sus scrofa

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