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实时荧光反转录PCR检测呼吸道合胞病毒

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Detection of Respiratory Syncytial Virus by Real Time Reverse Transcription PCR

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摘要 目的 建立快速、准确、特异的实时荧光反转录PCR方法检测呼吸道合胞病毒(RSV).方法 根据RSV基因序列设计引物和探针并优化实时荧光反转录PCR反应体系,对686例临床标本进行检测,阳性结果测序验证.结果 本实验所建立实时荧光反转录PCR方法可准确、特异地检测RSV;686名呼吸道感染患儿中RSV感染达到16.5%(113/686).结论 本研究建立的RSV实时荧光反转录PCR方法快速、准确,结果可靠,可用于儿童RSV感染的临床诊断.

关键词: 实时荧光反转录PCR 呼吸道合胞病毒 检测方法

Abstract: Objective To develop a rapid,sensitive and specific real-time reverse transcription PCR(RT-PCR) for detecting respiratory syncytial virus (RSV).Method The primer and probe were designed according to the RSV gene sequency,and the real-time reverse transcription PCR reaction was optimized.The real time RT-PCR was applied to detect 686 clinical respiratory specimens.Results The RSV was detected by real time RT-PCR accurately and quickly.Among those 686 specimens,113(16.5%) were positive for RSV.Conclusion Real time RT-PCR is a reliable and accurate assay for RSV.The detecting method can be applied to the clinical diagnosis of the RSV infection in children.

Key words: real time reverse transcription PCR respiratory virus

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