

Respiratory Syncytial Virus Type A/Type B Nucleic Acid Detection Kit (Fluorescent RT-PCR)

Product Introduction

Respiratory Syncytial Virus (RSV) is an RNA Virus that spreads through airborne droplets and close contact. It is an important pathogen of acute respiratory tract infection in children. RSV can be divided into RSV A and RSV B based on the difference of G and F antigens, with high fever, cough and wheezing as the main clinical manifestations. RSV infection does not produce long-lasting protective antibodies, making repeated infections common. RSV A and RSV B have some differences in epidemic characteristics and disease symptoms. This kit introduces human internal reference to monitor the whole process of sample collection, nucleic acid extraction and PCR amplification, which can accurately detect the two subtypes of RSV and ensure the effectiveness of the experiment.

Product Features



- **Accurate detection**

This kit can detect RSV A and RSV B nucleic acids in one reaction.

- **Strong applicability**

Suitable for human pharyngeal swabs.

- **High sensitivity**

Three different batches of reagents were used to test with a sensitivity of 500 copies/mL.

- **Good specificity**

No cross reaction with a variety of common respiratory infection pathogens such as Pertussis bacillus, Moraxella catarrh, Influenza A H1N1 virus, Influenza B virus, Adenovirus type 7, Mycoplasma pneumoniae, Streptococcus pneumoniae, etc.

- **Excellent anti-interference ability**

The samples contained endogenous inhibitors (such as blood, mucin and nasal secretions) and exogenous inhibitors (such as common drugs for treating colds or other similar symptoms), and no significant influence was observed on the test results.

- **Simple operation**

One-step RT-QPCR, complete closed tube amplification and detection, to prevent aerosol pollution. The detection report can be completed in 60 minutes.

Product Information

Parameters	Description
Sample Type	Pharyngeal swabs
Sensitivity	500 copies/mL
Precision	CV≤5%
Accuracy	RSV A and RSV B nucleic acids can be classified by one reaction.
Support Instrument	QuantGene 9600/LineGene 9600plus
Time	<60min
Storage Condition	-20 ± 5 °C avoid light

Application case

Case 1 10 times gradient dilution samples of RSV A and RSV B were extracted by MagaBio plus Virus DNA /RNA Purification Kit III (BSC86S1E) and detected by this kit.

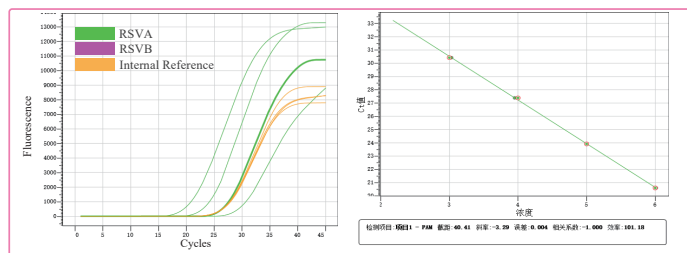


Figure 1 Amplification curve and standard curve of RSV A sample

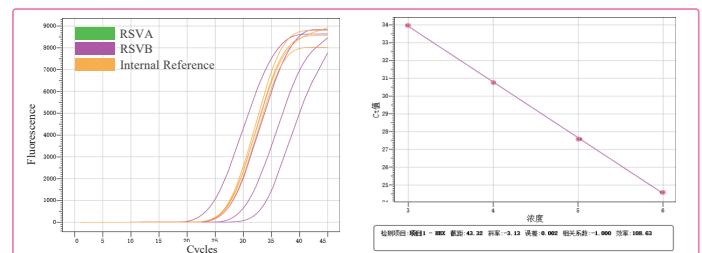


Figure 2 Amplification curve and standard curve of RSV B sample

※**Conclusion**: The results showed that the correlation coefficients of RSV A and RSV B were above 0.995, and the linear relationship was good, indicating that the kit had excellent performance.

Case 2 The extracted clinical samples of respiratory syncytial virus were tested with this reagent. At the same time, the competitive reagent in the market were compared to verify the coincidence rate.

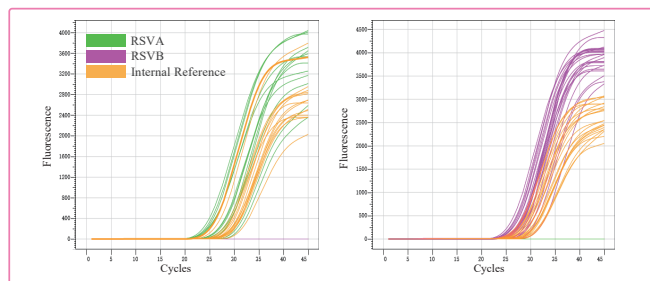


Figure 3 Clinical samples detected by Bioer's reagent

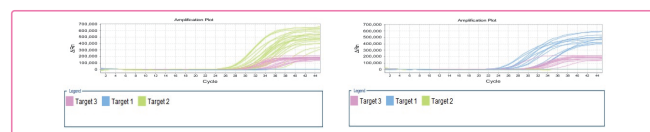


Figure 4 Clinical samples detected by competitive reagent

※**Conclusion**: The results showed that compared with the competitive reagent, the Bioer's reagent had higher detection coincidence rate and amplification efficiency.

Case 3 After the positive reference P1-P10 and negative reference N1-N10 of Bioer Technology were redissolved according to test requirements, the MagaBio plus Virus DNA /RNA Purification Kit III (BSC86S1E) was used to extract and use this kit to test the accuracy.

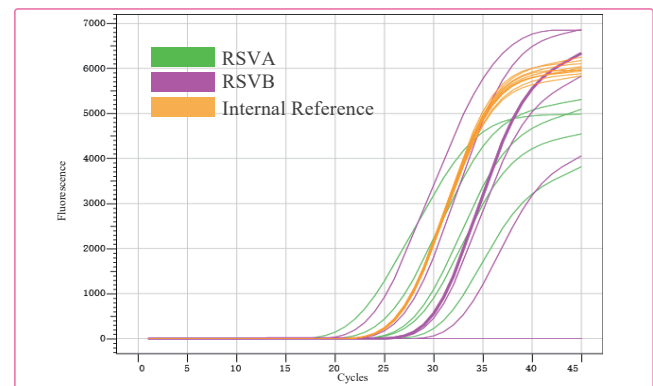


Figure 5 Positive reference P1-P10 and negative reference N1-N10

※**Conclusion**: The results showed that RSV A and RSV B nucleic acids could be detected accurately. Enterprise reference test results: positive rate of 100%, negative rate of 100%.

Ordering Information

Product Name	Cat#	Package
Respiratory Syncytial Virus Type A/Type B Nucleic Acid Detection Kit (Fluorescent RT-PCR)	BSJ05S1	24T
	BSJ05M1	48T