

Respiratory Pathogenic Bacteria Nucleic Acid Test Kit

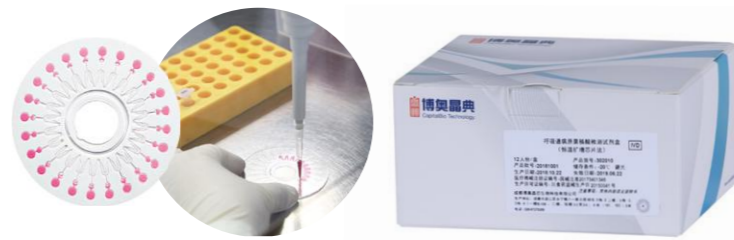
New generation of overall solution for etiological molecular detection of lower respiratory infection

Test Principle

The kit adopts isothermal amplification technology and reacts by using polymerase with function of strand displacement under isothermal (65 °C) condition. It's not required for the high-temperature degeneration and low-temperature annealing process, therefore there is no time consumption caused by temperature changes, so as to achieve high speed of amplification and complete amplification for target nucleic acid within short time (47 min). At this time, adopt the fluorescent dye insertion method for real-time fluorescence detection, and positive amplification sample will form S-shape amplification curve, and amplification and test of target gene can be completed within one step.

Product Advantages

-  **Fast**
Only 2h for whole experiment
-  **Sensitive**
LOD is 500 copies/reaction
-  **Accurate**
Patented micro-fluidic chip technology, equipped with control reaction tank and anti-pollution system
-  **Simple**
Simple nucleic acid extraction is required, there is subsequent sample reaction, and test results are automatically interpreted by software



Clinical Application

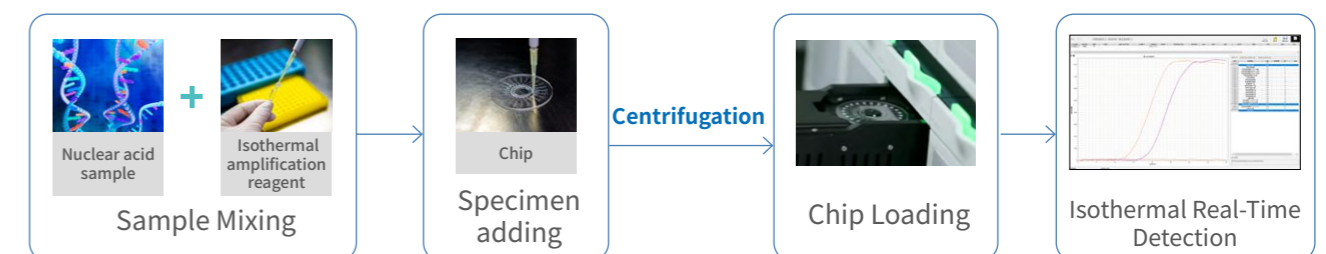
S/N	LOD is 500 copies/reaction	S/N	LOD is 500 copies/reaction
1	<i>Streptococcus pneumoniae</i> *	8	<i>Haemophilus influenzae</i> *
2	<i>Staphylococcus aureus</i> *	9	<i>Legionella pneumophila</i>
3	<i>Methicillin-resistant staphylococcus</i> *	10	<i>Mycoplasma pneumoniae</i>
4	<i>Klebsiella pneumoniae</i> *	11	<i>Chlamydia pneumoniae</i>
5	<i>Pseudomonas aeruginosa</i> *	12	<i>Escherichia coli</i>
6	<i>Acinetobacter baumannii</i> *	13	<i>Mycobacterium tuberculosis complex</i>
7	<i>Stenotrophomonas maltophilia</i> *		

* represents it has been approved by CFDA

Clinical Verification

Clinical Hospital	Summary of Clinical Research Report (Comparing with last generation of sequencing method)			
	Total Qty. of Sample	Positive Sample	Negative Sample	Total percent agreement
Peking University People's Hospital	629	307	322	98%
Beijing Children's Hospital	274	77	196	97%
Peking Union Medical College Hospital	391	312	79	98%
The First Affiliate Hospital of Guangzhou Medical University	400	280	120	99%
Fujian Provincial Hospital	391	202	189	97%
Total	2085	1178	906	97.8%

Test Process



← The whole process is around 50 mins →

Applicable Instruments

Compact Isothermal Amplification Nucleic Acid Analyzer
Single channel, compact and lightweight



RTIsochip™ -A

(National Registration Number of Medical Device:20173401354)

High-throughput Isothermal Amplification Nucleic Acid Analyzer
Four channels, modular design, expendable



RTIsochip™ -W

(National Registration Number of Medical Device:20193220539)

CapitalBio Technology

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