

Materials List for

Rapid Detection of Bacterial Pathogens Causing Lower Respiratory Tract Infections *via* Microfluidic-Chip-Based Loop-Mediated Isothermal Amplification

Jin-Xin Lai^{*1,2}, Yu-Rong Qin^{*1,3}, Yi-Wen Liao^{*4}, Yu-Ting Si¹, Quan Yuan¹, Shi-Mei Huang², Yu-Rong Tang², Ji-Liang Wang², Liang Wang¹

¹Laboratory Medicine, Guangdong Provincial People's Hospital (Guangdong Academy of Medical Sciences), Southern Medical University ²Department of Laboratory Medicine, Shengli Oilfield Central Hospital ³Guangdong Cardiovascular Institute, Guangdong Provincial People's Hospital (Guangdong Academy of Medical Sciences), Southern Medical University ⁴Dermatology Hospital, Southern Medical University

*These authors contributed equally

Corresponding Authors

Ji-Liang Wang

zxyywj@163.com

Liang Wang

healthscience@foxmail.com

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Materials

Name	Company	Catalog Number	Comments
Bath Incubator(MK2000-2)	ALLSHENG		Provide a constant temperature environment
Bronchial lavage fluid collector head	TIANPINGHUACHANG	SEDA 20172081375	Collecting bronchoalveolar lavage fluid
Fiberoptic bronchoscope	OLYMPUS	SEDA 20153062703	A flexible bronchoscope equipped with a fiberoptic light source and camera, to visually examine the airways and structures within the lungs. Assist in collecting bronchoalveolar lavage
HR1500-ⅡB2	Haier	SEDA 20183541642	Biosafety cabinet
NAOH	MACKLIN	S817977	Liquefy viscous lower respiratory tract sample
Nucleic acid detection kit for respiratory tract pathogens	Capitalbio Technology	SEDA 20173401346	Testing for bacteria infection
Nucleic acid extraction reagent	Capitalbio Technology	SEDA 20160034	For DNA extraction
RTisochip-W	Capitalbio Technology	SEDA 20193220539	Loop-mediated Isothermal Amplification
THERMO ST16R	Thermo Fisher Scientific	SEDA 20180585	Centrifuge the residual liquid off the wall of the tube.
Vortex mixer VM-5005	JOANLAB		For mixing reagent