

RiboNAT™

Rapid Sterility Testing



The RiboNAT™ Rapid Sterility Test by FUJIFILM Wako is designed for rapid results, bringing turnaround times for patients awaiting treatment to a minimum.

During quality testing for crucial drugs and therapies, standard compendial sterility testing methods require a 14-day cultivation period. Many drugs however have considerably shorter shelf lives and require administration to the patient within a few days from production, including novel cell and gene therapies that are wholly incompatible with membrane filtration methods. As a result, standard sterility testing is simply not sufficient for meeting the growing need for rapid results, necessitating sterility tests that are faster, while staying as accurate and sensitive as compendial methods.

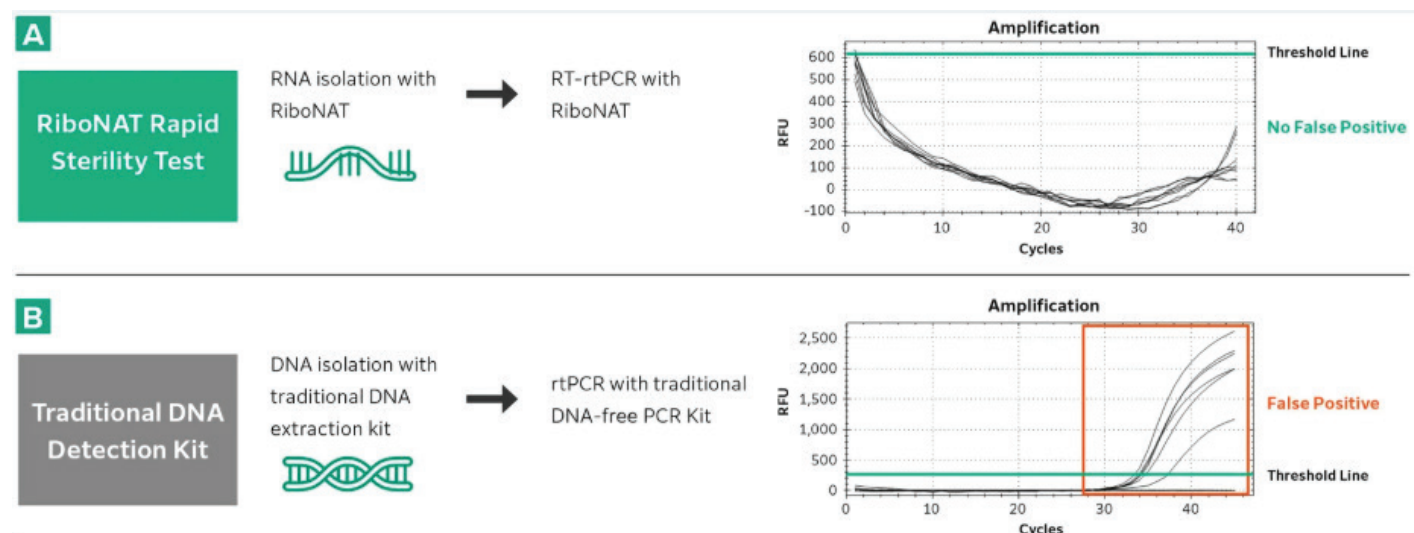
One-day Rapid Sterility Testing

RiboNAT™ is a rapid sterility testing kit using the Nucleic Acid Amplification (NAT) method to deliver results in as little as 7 hours, whilst maintaining the accuracy of conventional sterility testing methods. The vastly reduced test time ensures timely delivery to the patient, reducing waste and improving patient safety.

For Research
Use Only

RiboNAT™ differs from standard NAT testing methods by targeting ribosomal RNA (rRNA) instead of genomic DNA. Since rRNA is present in higher relative quantities in microorganisms than genomic DNA, this enables RiboNAT™ to have greater sensitivity than standard methods. RiboNAT™ can also detect a wide range of bacteria (both aerobic and anaerobic) and fungi in a single assay, with 95.7% coverage of bacteria and 92.3% coverage of fungi in silico.

Additionally, RiboNAT™ minimises false positives from dead microorganisms and residual DNA by inactivating and degrading DNA, ensuring only the most accurate results.



The image above demonstrates the reduced false positive detection from RiboNAT™ compared to traditional DNA detection – a sterile sample of PBS was tested for 6 microorganisms after rtPCR, only RiboNAT™ did not flag any false positives.

What's in the box?

RNA Isolation Kit 1	
Activator Solution 1 (SCDM)	Nucleic Acid Inactivator
Activator Solution 2 (TG) x 2	Proteinase K Solution
Enzyme Enhancer	Enzyme Mix
DNase Solution	
1st-DNase Buffer (1)	
2nd-DNase Buffer (2)	

RNA Isolation Kit 2	
Binding Buffer	Magnetic Beads
1st-Wash Buffer (1)	Sample Tubes
2nd-Wash Buffer (2)	Elution Tubes
Lysis Buffer	
Lytic Enhancer	
Elution Buffer x 3	

Detection Kit
Water
Positive Control RNA
Internal Control RNA
Detection Mix x 2

Cat. No.	Description	Pack Size
291-98401	RiboNAT™ Rapid Sterility Test - RNA Isolation Kit 1	50 Tests
297-98001	RiboNAT™ Rapid Sterility Test - RNA Isolation Kit 2	50 Tests
293-98101	RiboNAT™ Rapid Sterility Test - Detection Kit	100 Tests

All three kits are required for the rapid sterility test assay.



Find out more about RiboNAT™ here: www.alphalabs.co.uk/rapid-sterility-testing

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