

Nucleic Acid Extraction Kit

(For Universal Pathogen DNA and RNA)

Tianlong Nucleic Acid Extraction Kit (For Universal Pathogen DNA and RNA) enables rapid and efficient purification of high-quality DNA and RNA from viruses, bacteria, fungi, and atypical pathogens across diverse sample types. Designed for compatibility with automated extraction instrument GeneRotex 96, it delivers high-throughput, safe, and inhibitor-free nucleic acids ready for diagnostics, research, and other molecular testing. Engineered for efficiency, versatility, and outstanding performance in every lab.



FEATURES

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Compatible with Multiple Sample Types
 Broad compatibility with diverse sample types such as swabs, stool, and bacterial cultures.
*Recommended for use with Tianlong Grindtube A to ensure higher nucleic acid yield.
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Broad Pathogen and Workflow Compatibility
 Efficiently extracts DNA and RNA from bacteria, fungi, and viruses, supporting diverse pathogen detection workflows and multi-target testing need.
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High yield for Retesting Without Re-Extraction
 Large elution volume with high output ensures sufficient nucleic acid for retesting, allowing confirmation of initial results without re-extraction.
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Fast Processing
 Automated extraction of 96 samples in under 20 minutes, maximizing laboratory efficiency.
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Simple and Flexible Operation
 Pre-filled reagents with multiple size provide flexibility to match daily testing requirements, easy to use and adapt.

PERFORMANCE

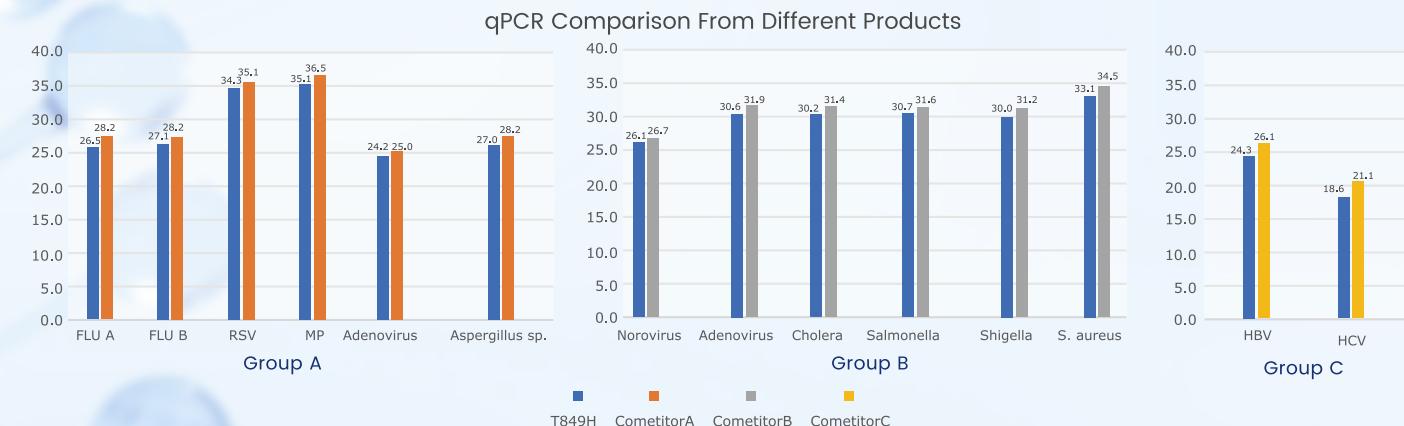
Sensitivity

Detection Rate of Pathogens in Different Sample Types

Sample Type	RNA Virus	DNA Virus	Gram-negative Bacteria	Gram-positive Bacteria	Fungi
Swab wash buffer	100%	100%	100%	100%	100%
Stool	100%	100%	100%	100%	100%
Serum	100%	100%	100%	100%	100%

*Each sample type was tested with 20 replicates at concentrations near the LoD using PCR, demonstrating consistent detection across multiple pathogen types.

Accuracy



*Group A represents swab samples, Group B represents stool samples, and Group C represents plasma samples. qPCR was performed in triplicate for each sample using primers specific to the target organisms. The data shown represent the average CT values from the triplicate reactions.

ORDERING INFORMATION

Cat.No	Method	Specifications	Sample Type	Targets
T849H	Magnetic Beads method	64T 16T/Plate*4 plates	Throat/Nasopharyngeal swab wash buffer Serum, plasma	DNA and RNA from viruses, bacteria and fungi
T850H		20T 1T/strip*20 strips	Stool, stool swabs Blood cultures Bacterial cultures	

APPLICATION AREAS



Version 1.0

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