



## Delta Total Nucleic Acid Extraction Kits







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## Product Types

	Catalog No.	Sample Types	Nucleic Acid Source/ Pathogen Type	Type of Extracted Nucleic Acid	Processing	Downstream applications
<b>TNA Extraction Kit for Nasal Swab</b> 	<ul style="list-style-type: none"> <li>• 840101024 (24-prep)</li> <li>• 840101096 (96-prep)</li> </ul>	<ul style="list-style-type: none"> <li>• Wet swab in UTM/VTM/MTM</li> <li>• Dry swab</li> </ul>	<ul style="list-style-type: none"> <li>• Host</li> <li>• Viruses (DNA and RNA)</li> <li>• Bacteria (gram-negative and gram-positive e.g. <i>mycobacterium fortuitum</i>)</li> </ul>	DNA and RNA	Manual or Automated	qPCR, RT-qPCR, isothermal amplification (LAMP and RT-LAMP)
<b>TNA Extraction Kit for Blood</b> 	<ul style="list-style-type: none"> <li>• 840102024 (24-prep)</li> <li>• 840102096 (96-prep)</li> </ul>	<ul style="list-style-type: none"> <li>• Whole Blood</li> </ul>	<ul style="list-style-type: none"> <li>• Host</li> <li>• Viruses (DNA and RNA)</li> <li>• Bacteria (gram-negative and gram-positive e.g. <i>mycobacterium fortuitum</i>)</li> <li>• Fungi</li> </ul>			
<b>TNA Extraction Kit for STD (Swab)</b> 	<ul style="list-style-type: none"> <li>• 840103024 (24-prep)</li> <li>• 840103096 (96-prep)</li> </ul>	<ul style="list-style-type: none"> <li>• Wet swab in UTM/VTM/MTM</li> <li>• Dry swab</li> </ul>	<ul style="list-style-type: none"> <li>• Host</li> <li>• <i>Chlamydia trachomatis</i></li> <li>• <i>Neisseria gonorrhoeae</i></li> <li>• <i>Mycoplasma genitalium</i></li> <li>• <i>Trichomonas vaginalis</i></li> <li>• Herpes simplex viruses 1 and 2</li> <li>• <i>Candida albicans</i></li> </ul>			
<b>TNA Extraction Kit for Serum/Plasma</b> 	<ul style="list-style-type: none"> <li>• 840104024 (24-prep)</li> <li>• 840104096 (96-prep)</li> </ul>	<ul style="list-style-type: none"> <li>• Serum/Plasma</li> </ul>	<ul style="list-style-type: none"> <li>• Viruses (DNA and RNA)</li> </ul>			
<b>DNA Extraction Kit for Nasal Swab*</b> <small>*Kits for more sample types and RNA extraction kits are in development.</small>	<ul style="list-style-type: none"> <li>• 840105024 (24-prep)</li> <li>• 840105096 (96-prep)</li> </ul>	<ul style="list-style-type: none"> <li>• Wet swab in UTM/VTM/MTM</li> <li>• Dry swab</li> </ul>	<ul style="list-style-type: none"> <li>• Host</li> <li>• Viruses</li> <li>• Bacteria (gram-negative and gram-positive e.g. <i>mycobacterium fortuitum</i>)</li> </ul>	DNA		

## Key Features



### Alcohol free

- Hassle-free transportation and storage
- Consistent buffer composition
- No risk of volatile chemical evaporation
- Reduce risk of downstream inhibition



### Enzyme free

- No Proteinase K & lysozyme treatment
- No sample pretreatment needed



### Beads drying free

- Fast turnaround time
- No risk of downstream inhibition due to alcohol residue



### Centrifugation free

- Minimizing carryover residue
- No sample loss due to dead volume from spin column



### Safe & Easy storage

- Alcohol- and enzyme-free, thus minimizing storage requirements



### Carrier RNA free

- Unique technology prevent degradation of target nucleic acid
- Specialized binding bead for effective recovery with low nucleic acid input

# TNA Extraction Kit for Nasal Swab

Total Nucleic Acid (TNA) Extraction Kit for Nasal Swab provides a unique and rapid method to extract and purify both DNA and RNA in 10 mins from nasal swab samples. It extracts nucleic acid effectively from a variety of microorganisms, including viruses and bacteria (gram-positive and gram-negative). This kit, which utilizes magnetic beads-based technology, is compatible with automated platforms to enable high throughput extraction in extremely short processing time. Reagents are specially formulated to be enzyme-free, alcohol-free, and stable when stored at room temperature, thus eliminating any special storage and handling requirements.

## Highlights:

- ▶ **Room temperature storage**
  - No refrigeration needed
- ▶ **Ready to use and convenient**
  - No addition of alcohols required
- ▶ **Simplified protocol**
  - No enzymatic pretreatment (even for gram-positive bacteria)
- ▶ **Rapid and easy procedure**
  - No centrifugation, and automation-compatible
- ▶ **Time-saving**
  - No beads drying time
- ▶ **Universal protocol**
  - Simultaneous detection of different microorganism types from single sample
- ▶ **High quality total DNA and RNA for molecular applications**

## Specifications:

Technology	Magnetic beads
Packaging Size	24-prep or 96-prep
Storage Condition	Room temperature
Sample Types	<ul style="list-style-type: none"><li>• Wet swab in UTM/VTM/MTM</li><li>• Dry swab</li></ul>
Sample Volume	300 µL (wet swab)
Nucleic Acid Source/ Pathogen Type	<ul style="list-style-type: none"><li>• Host</li><li>• <b>Viruses</b> (DNA and RNA)</li><li>• <b>Bacteria</b> (gram-negative and gram-positive)</li></ul>

Processing	Manual (magnetic rack) or automated (automated extraction instrument)*
Elution Volume	80 µL
Type of Extracted Nucleic Acid	DNA and RNA
Downstream Applications	qPCR, RT-qPCR, isothermal amplification (LAMP and RT-LAMP)
Time (per prep)	10 mins
*Compatible with automated nucleic acid extraction systems, including Katsura M32 Nucleic Acid Extractor and Thermo Fisher Scientific KingFisher Apex System	

## Comparison with Leading Commercial Kits:

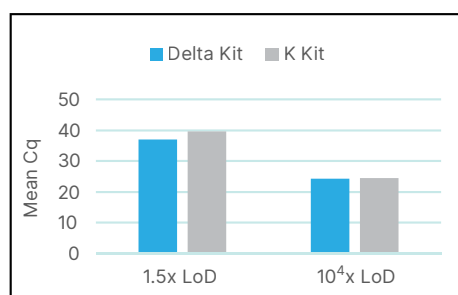
Features		Delta Kit	M Kit	Q Kit	R Kit	K Kit
Reagent simplicity	Alcohol-free	✓	✗	✗	✗	✗
	Enzyme-free (e.g. Proteinase K)	✓	✗	✗	✓	✓
	Storage	Room Temperature	RT, -20°C	RT, -20°C	RT, -20°C	RT
Protocol simplicity	Pretreatment required?	No	Yes	Yes	No	No
	Operational temperature	RT, 80°C	RT, 56°C	RT, 37°C, 56°C, 95°C	RT	RT, 80°C
	No centrifugation	✓	✓	✗	✓	✓
	No beads drying step	✓	✗	✓	✓	✗
	No. of steps	10	18	11	12	10
Targets	Viral RNA	✓	✓	✗	✓	✓
	Viral DNA	✓	✓	✓	✓	✓
	Bacterial DNA	✓	✓	✓	✗	✗
Time taken	Total protocol time (minutes)	<10	60	95	23	27

## Performance:

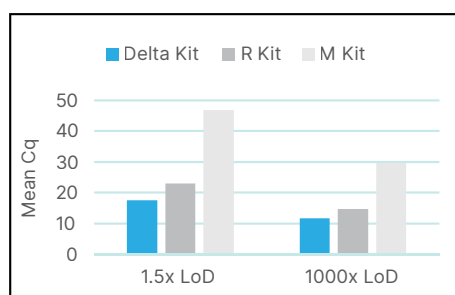
### Better or comparable performance compared with other commercial kits

Nucleic acid extractions from *S. aureus* (gram-positive bacteria) and influenza A (RNA virus) at indicated concentrations with Delta kit and leading commercial kits. Protocols were followed according to manufacturers' instructions. Both LAMP and qPCR performances were evaluated, and Delta kit is better or comparable to other commercial kits. (For LAMP/RT-LAMP, Cq refers to threshold time and each cycle is 30 sec)

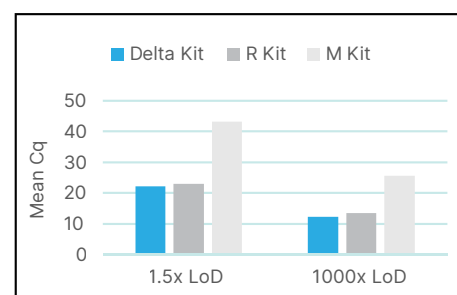
*S. aureus* qPCR



*S. aureus* LAMP



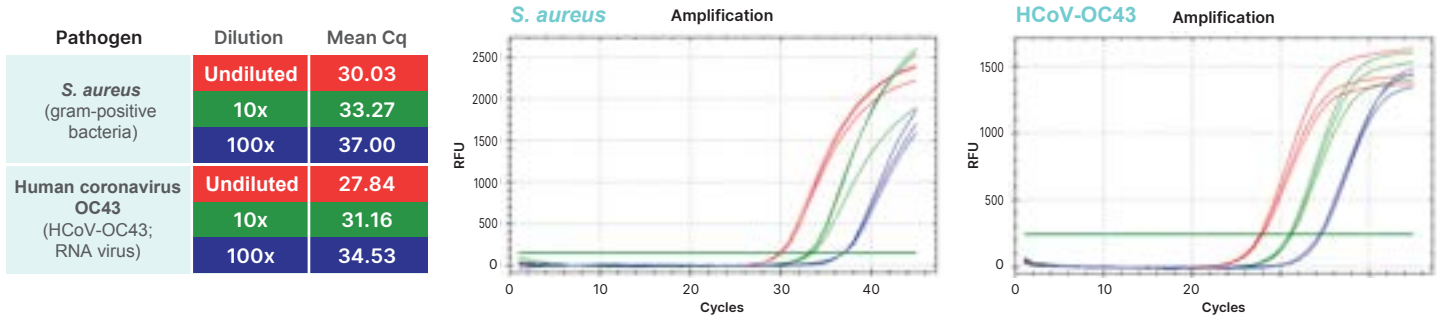
Influenza A RT-LAMP





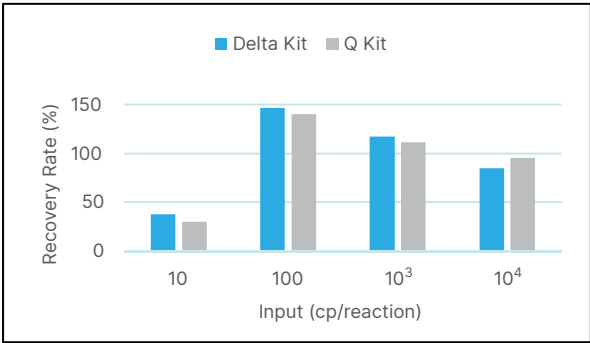
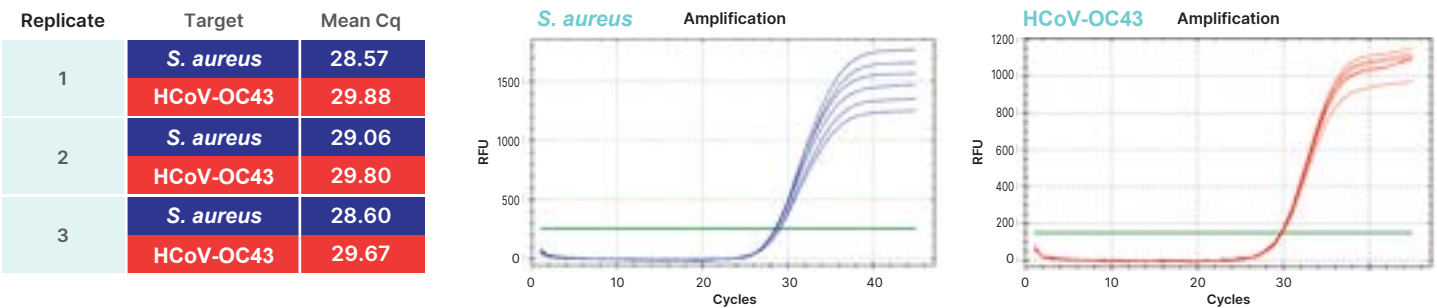
High quality nucleic acid obtained from our kit contain no PCR inhibitors.

Nucleic acid extractions from 300 µL pathogen-spiked swab matrixes were performed with TNA Extraction Kit for Nasal Swab. qPCR/RT-qPCR performances of undiluted, 10x-diluted and 100x-diluted eluates indicate there is little or no PCR inhibition.



Different nucleic acids are extracted simultaneously from TNA Extraction Kit for Nasal Swab.

Nucleic acid extraction from 300 µL swab matrix spiked with 1000x LoD each of *S. aureus* (gram-positive bacteria) and HCoV-OC43 (RNA virus) was performed with TNA Extraction Kit for Nasal Swab. A total of 3 replicates were done, and similar results were obtained amongst the replicates. Both targets showed good qPCR/RT-qPCR amplification.



Delta kit is automation-compatible with recovery rates better or comparable to that of manual extraction with leading commercial kit.

Nucleic acid extraction of varying amounts of SARS-CoV-2 (RNA virus) was done with both Delta and leading commercial kit. Delta kit extraction was performed with Katsura M32 Nucleic Acid Extractor, while manual extraction was performed for Q kit. Based on standard curve generated from SARS-CoV-2 RNA spiked directly into RT-qPCR reactions, the RNA yield from each kit was quantitated, and recovery rates were tabulated. Delta kit has better or comparable recovery rates to that of Q kit.

## TNA Extraction Kit for Blood

TNA Extraction Kit for Blood provides a unique and rapid method to extract and purify both DNA and RNA in around 13 mins, from hosts as well as a variety of microorganisms, including viruses, bacteria (gram-negative and gram-positive) and fungi, from whole blood samples. This kit, which utilizes magnetic beads-based technology, is compatible with automated platforms to enable high throughput extraction in extremely short processing time. Reagents are specially formulated to be enzyme-free, alcohol-free and stable when stored at room temperature, thus eliminating any special storage and handling requirements.

### Highlights:

- ▶ **Room temperature storage**
  - No refrigeration needed
- ▶ **Ready to use and convenient**
  - No addition of alcohols required
- ▶ **Simplified protocol**
  - No enzymatic pretreatment (even for gram-positive bacteria and fungi)
- ▶ **Rapid and easy procedure**
  - No centrifugation, and automation-compatible
- ▶ **Time-saving**
  - No beads drying time
- ▶ **Universal protocol**
  - Simultaneous detection of host and microorganisms from single sample
- ▶ **High quality total DNA and RNA for molecular applications**

### Specifications:

Technology	Magnetic beads	Processing	Manual (magnetic rack) or automated (automated extraction instrument)*
Packaging Size	24-prep or 96-prep	Elution Volume	50 µL
Storage Condition	Room temperature	Type of Extracted Nucleic Acid	DNA and RNA
Sample Types	Whole blood	Downstream applications	qPCR, RT-qPCR, isothermal amplification (LAMP and RT-LAMP)
Sample Volume	300 µL	Time (per prep)	13 mins
Nucleic Acid Source/ Pathogen Type	<ul style="list-style-type: none"><li>• Host</li><li>• Viruses (DNA and RNA)</li><li>• Bacteria (gram-negative and gram-positive)</li><li>• Fungi</li></ul>	*Compatible with automated nucleic acid extraction systems, including Katsura M32 Nucleic Acid Extractor and Thermo Fisher Scientific KingFisher Apex System	



## Comparison with Leading Commercial Kits:

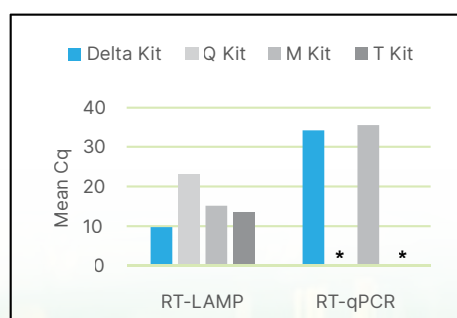
Features		Delta Kit	N Kit	M Kit	T Kit	Z Kit	B Kit	Q Kit	G Kit
Reagent simplicity	Alcohol-free	✓	✗	✗	✗	✗	✗	✗	✗
	Enzyme-free (e.g. Proteinase K)	✓	✗	✗	✗	✗	✗	✗	✗
Protocol simplicity	Storage	Room Temperature	RT, 2°C - 8°C, -20°C	RT, 2°C - 8°C, -20°C	RT, 2°C - 8°C, -20°C	RT, 2°C - 8°C, -20°C	RT, 2°C - 8°C, -20°C	RT, -20°C	RT, -20°C
	Pretreatment required?	No	Yes	No	No	Yes	Yes	Yes	No
	Operational temperature	RT, 95°C	RT, 37°C, 55°C, 65°C	RT, 37°C, 56°C, 60°C	RT, 56°C, 65°C	RT, 37°C	RT, 37°C, 60°C, 65°C	RT, 37°C, 56°C, 95°C	RT, 4°C
	No centrifugation	✓	✓	✓	✓	✗	✓	✗	✗
	No beads drying step	✓	✗	✗	✗	✓	✗	✓	✓
	No. of steps	10	23	18	14	10	18	22	22
Targets	Viral RNA	✓	✗	✓	✓	✗	✗	✗	✓
	Viral DNA	✓	✗	✓	✓	✗	✗	✗	✗
	Bacterial DNA	✓	✓	✗	✗	✗	✗	✓	✗
	Fungal DNA	✓	✗	✗	✗	✓	✓	✗	✗
Time taken	Total protocol time (minutes)	<13	103	60	45	110	55	20-95	41

## Performance:

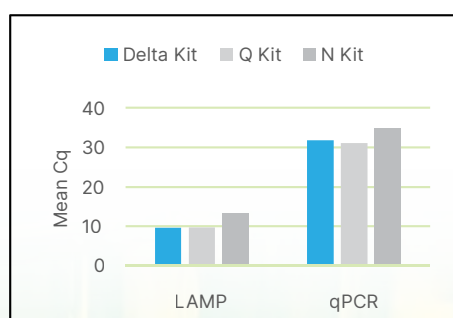
### Better or comparable performance compared with other commercial kits

Nucleic acid extractions from blood spiked with either *S. aureus* (gram-positive bacteria), dengue virus Type 2 (dengue 2; RNA virus), or *Candida albicans* (*C. albicans*; fungus) at 1.5x LoD with Delta kit and leading commercial kits. Protocols were followed according to manufacturers' instructions. Both LAMP and qPCR performances were evaluated, and Delta kit is better or comparable to other commercial kits. (\*No amplification observed. For LAMP/RT-LAMP, Cq refers to threshold time and each cycle is 30 sec.)

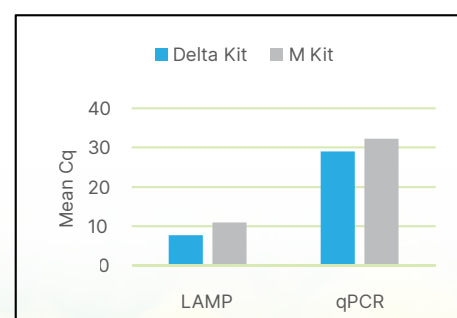
#### Dengue 2

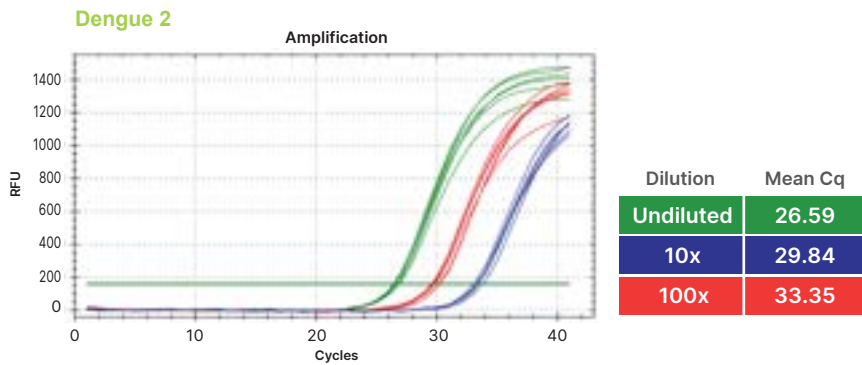


#### *S. aureus*



#### *C. albicans*



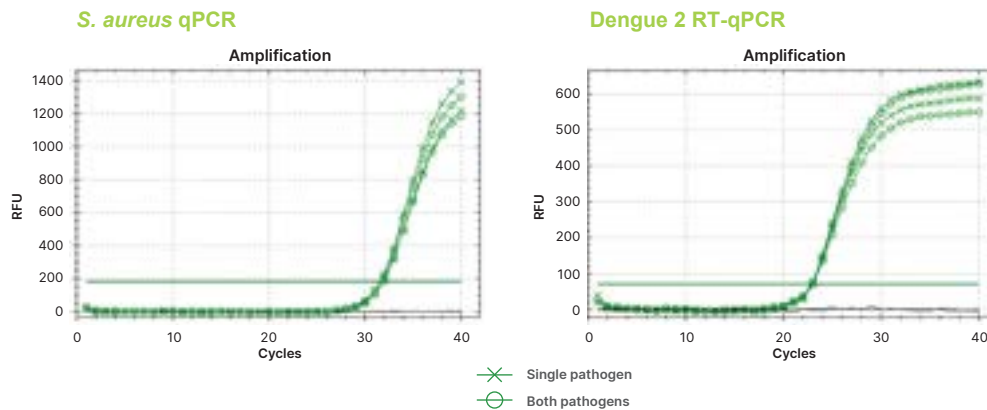


### High quality nucleic acid obtained from our kit contain no PCR inhibitors.

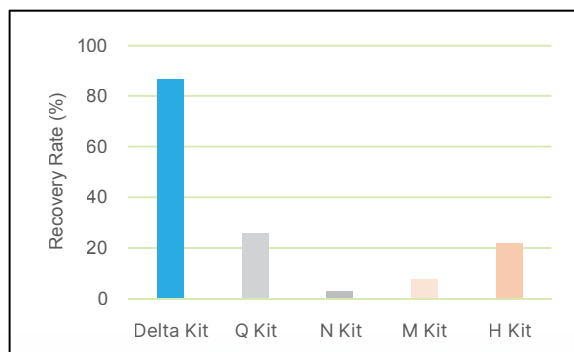
Nucleic acid extraction from 300  $\mu$ L blood spiked with 100 TCID<sub>50</sub> dengue virus Type 2 (dengue 2; RNA virus) was performed with TNA Extraction Kit for Blood. RT-qPCR performances of undiluted, 10x-diluted and 100x-diluted eluates indicate there is little or no PCR inhibition.

### Different nucleic acids are extracted simultaneously with TNA Extraction Kit for Blood.

Nucleic acid extractions from 300  $\mu$ L blood spiked with either 15 CFU of *S. aureus* (gram-positive bacteria), 1000 TCID<sub>50</sub> dengue virus Type 2 (dengue 2; RNA virus), or both pathogens were performed with TNA Extraction Kit for Blood. Similar qPCR/RT-qPCR amplifications were observed between samples spiked with only one or both pathogens, indicating that the TNA Extraction Kit for Blood allows simultaneous extraction of both RNA and DNA from the same sample.



Target	Spike-in	Mean Cq
<i>S. aureus</i>	Single pathogen	31.76
	Both pathogens	31.77
Dengue 2	Single pathogen	31.76
	Both pathogens	31.77



### Delta kit has best recovery rate amongst leading commercial kits.

Nucleic acid extraction of whole blood was done with Delta and leading commercial kits. Total DNA amount in the eluates were quantitated by Qubit, and the recovery rate was calculated based on total DNA amount recovered and theoretical amount of leukocytes DNA normally present in blood. Delta kit outperforms other commercial kits with the best recovery rate.

## TNA Extraction Kit for STD (Swab)

TNA Extraction Kit for STD (Swab) provides a unique and rapid method to extract and purify both DNA and RNA in 10 mins from STD swab samples. It extracts nucleic acid effectively from host and a range of STD pathogens, including *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, *Mycoplasma genitalium*, *Trichomonas vaginalis*, Herpes simplex viruses 1 and 2, and *Candida albicans*. This kit, which utilizes magnetic beads-based technology, is compatible with automated platforms to enable high throughput extraction in extremely short processing time. Reagents are specially formulated to be enzyme-free, alcohol-free, and stable when stored at room temperature, thus eliminating any special storage and handling requirements.

### Highlights:

- ▶ **Room temperature storage**
  - No refrigeration needed
- ▶ **Ready to use and convenient**
  - No addition of alcohols required
- ▶ **Simplified protocol**
  - No enzymatic pretreatment
- ▶ **Rapid and easy procedure**
  - No centrifugation, and automation-compatible
- ▶ **Time-saving**
  - No beads drying time
- ▶ **Universal protocol**
  - Simultaneous detection of different microorganism types from single sample
- ▶ **High quality total DNA and RNA for molecular applications**

### Specifications:

Technology	Magnetic beads
Packaging Size	24-prep or 96-prep
Storage Condition	Room temperature
Sample Types	<ul style="list-style-type: none"><li>• Wet swab in UTM/VTM/MTM</li><li>• Dry swab</li></ul>
Sample Volume	300 µL (wet swab)
Nucleic Acid Source/ Pathogen Type	<ul style="list-style-type: none"><li>• Host</li><li>• <i>Chlamydia trachomatis</i></li><li>• <i>Neisseria gonorrhoeae</i></li><li>• <i>Mycoplasma genitalium</i></li><li>• <i>Trichomonas vaginalis</i></li><li>• Herpes simplex viruses 1 and 2</li><li>• <i>Candida albicans</i></li></ul>

Processing	Manual (magnetic rack) or automated (automated extraction instrument)*
Elution Volume	80 µL
Type of Extracted Nucleic Acid	DNA and RNA
Downstream applications	qPCR, RT-qPCR, isothermal amplification (LAMP and RT-LAMP)
Time (per prep)	10 mins

\*Compatible with automated nucleic acid extraction systems, including Katsura M32 Nucleic Acid Extractor and Thermo Fisher Scientific KingFisher Apex System

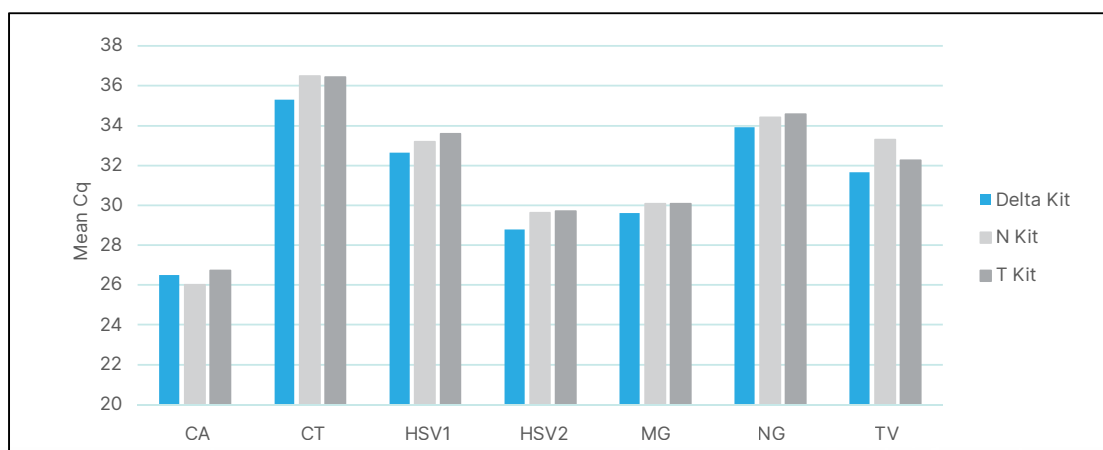
## Comparison with Leading Commercial Kits:

Features		Delta Kit	T Kit	N Kit
Reagent simplicity	Alcohol-free	✓	✗	✗
	Enzyme-free (e.g. Proteinase K)	✓	✗	✗
	Storage	Room Temperature	Room Temperature	Room Temperature
Protocol simplicity	Operational temperature	RT, 80°C	RT, 65°C	RT, 65°C
	No beads drying required	✓	✗	✗
	No. of steps	10	20	20
Targets	Viral DNA	✓	✓	✓
	Viral RNA	✓	✓	✓
	Bacterial DNA	✓	✓	✓
	Fungal DNA	✓	✗	✗
Time taken	Total protocol time (minutes)	<10	90	45

## Performance:

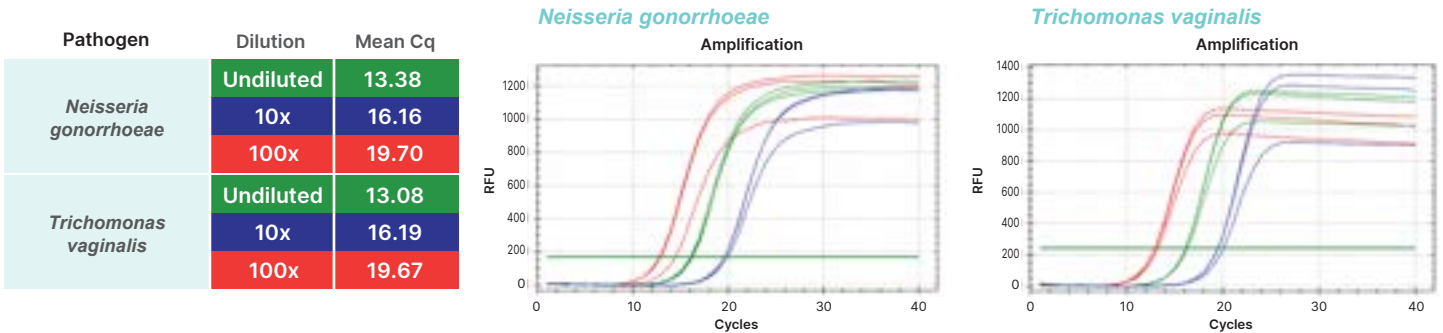
### Better or comparable performance compared with other commercial kits

Nucleic acid extractions from pooled human vaginal fluid spiked with 3x LoD each of 7 pathogens (*Chlamydia trachomatis* (CT), *Neisseria gonorrhoeae* (NG), *Mycoplasma genitalium* (MG), *Trichomonas vaginalis* (TV), Herpes simplex viruses 1 and 2 (HSV1, HSV2), *Candida albicans* (CA)) were performed with Delta and leading commercial kits. Protocols were followed according to manufacturers' instructions. qPCR performances were evaluated, and Delta kit is better or comparable to other commercial kits.



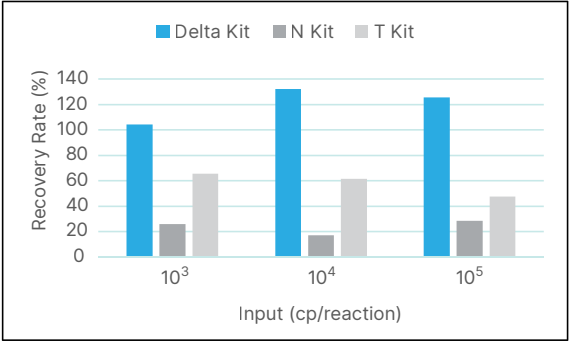
High quality nucleic acid obtained from our kit contain no PCR inhibitors.

Nucleic acid extractions from 300 µL pathogen-spiked artificial vaginal fluid in MTM were performed with TNA Extraction Kit for STD (Swab). qPCR performances of undiluted, 10x-diluted and 100x-diluted eluates indicate there is little or no PCR inhibition.



Delta kit has the best recovery rate compared with leading commercial kits.

Varying amounts of purified *Chlamydia trachomatis* DNA was spiked into artificial vaginal fluid in MTM, and nucleic acid extractions were done with Delta and leading commercial kits. Based on standard curve generated from purified *Chlamydia trachomatis* DNA spiked directly into qPCR reactions, the DNA yield from each kit was quantitated, and recovery rates were tabulated. Delta kit outperforms other commercial kits with the best recovery rates.





## TNA Extraction Kit for Serum/Plasma

TNA Extraction Kit for Serum/Plasma provides a unique and rapid method to extract and purify both viral DNA and RNA in around 13 mins from serum/plasma samples. This kit, which utilizes magnetic beads-based technology, is compatible with automated platforms to enable high throughput extraction in extremely short processing time. Reagents are specially formulated to be enzyme-free, alcohol-free, and stable when stored at room temperature, thus eliminating any special storage and handling requirements.

### Highlights:

- ▶ **Room temperature storage**
  - No refrigeration needed
- ▶ **Ready to use and convenient**
  - No addition of alcohols required
- ▶ **Simplified protocol**
  - No enzymatic pretreatment
- ▶ **Rapid and easy procedure**
  - No centrifugation, and automation-compatible
- ▶ **Time-saving**
  - No beads drying time
- ▶ **High quality total DNA and RNA for molecular applications**

### Specifications:

Technology	Magnetic beads
Packaging Size	24-prep or 96-prep
Storage Condition	Room temperature
Sample Types	Serum or plasma
Sample Volume	300 µL
Nucleic Acid Source/ Pathogen Type	Viruses (DNA and RNA)

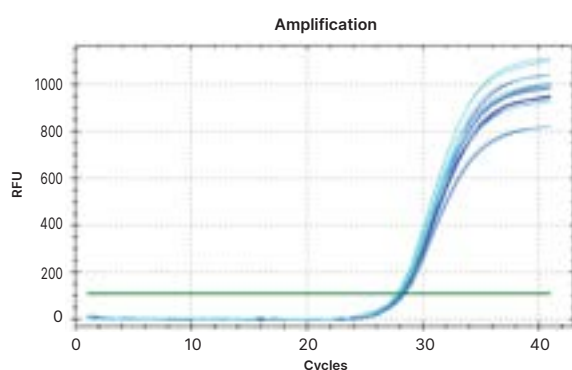
Processing	Manual (magnetic rack) or automated (automated extraction instrument)*
Elution Volume	50 µL
Type of Extracted Nucleic Acid	DNA and RNA
Downstream applications	qPCR, RT-qPCR, isothermal amplification (LAMP and RT-LAMP)
Time (per prep)	13 mins

\*Compatible with automated nucleic acid extraction systems, including Katsura M32 Nucleic Acid Extractor and Thermo Fisher Scientific KingFisher Apex System

## Comparison with Leading Commercial Kits:

Features		Delta Kit	M Kit	T Kit
Reagent simplicity	Alcohol-free	✓	✗	✗
	Enzyme-free (e.g. Proteinase K)	✓	✗	✗
	Storage	Room Temperature	RT, 2°C - 8°C, -20°C	RT, 2°C - 8°C, -20°C
Protocol simplicity	Operational temperature	RT, 95°C	RT, 37°C, 56°C, 60°C	RT, 56°C, 65°C
	No beads drying required	✓	✗	✗
	No. of steps	10	21	19
Targets	Viral DNA	✓	✓	✓
	Viral RNA	✓	✓	✓
Time taken	Total protocol time (minutes)	<13	60	45

## Performance:



High quality nucleic acid obtained from TNA Extraction Kit for Serum/Plasma show good RT-qPCR performance that is comparable to that of TNA Extraction Kit for Blood.

Nucleic acid extraction from 300 µL serum spiked with dengue virus Type 2 (dengue 2; RNA virus) was performed with both TNA Extraction Kit for Blood and TNA Extraction Kit for Serum/Plasma. Similar Cq values were obtained from both eluates, indicating that they have similar extraction efficiencies.

Kit	Mean Cq
Serum/Plasma	28.22
Blood	27.95

## Molecular Transport Medium (MTM)

Delta MTM buffer (Catalog No.: 810101060; 60 mL) is developed with the aim to inactivate all pathogens from patient samples, and to protect the integrity of pathogen nucleic acids for downstream molecular analysis. The buffer is intended for transportation and storage at ambient temperature.

### Highlights

- ▶ **Effective pathogen inactivation**
  - Inactivate bacteria (gram-positive & gram-negative) at point of collection
  - Inactivate viruses within seconds
- ▶ **Ambient temperature storage and transportation**
  - Stabilize and preserve both DNA and RNA
  - Suitable for field usage
- ▶ **Versatile**
  - Compatible with nucleic acid extraction kits
  - Compatible with downstream molecular diagnostics and genomic analysis
- ▶ **Ready to use and ease of shipping**
  - Ethanol-free buffer

### Comparison with Leading Commercial Kits:

Features	Delta Kit	P Company	C Company	Z Company	N Company	R Company
Alcohol-free	✓	✗	✗	✗	✗	✗
Target pathogen(s)	<i>S. aureus</i> , <i>P. aeruginosa</i> , Human coronaviruses, mycobacteria, influenza A	Influenza A, <i>Mycobacteria tuberculosis</i>	Influenza A	SARS-CoV2	Adenovirus, influenza A, human parainfluenza virus 2	Influenza A
Nucleic acid type	RNA & DNA	RNA & DNA	RNA	RNA	RNA	RNA
Specimen stability	RNA: 3 months DNA: 18 months	8 days at 27°C, 28 days at 4°C	28 days	28 days	15 days	1 day
Shelf life	24 months	24 months	18 months	24 months	12 months	14 days
Viral inactivation efficiency (conc.reduction)	>4.0 log	>4.0 log	>4.0 log	>2.0 log	>4.0 log	>4.0 log
Viral inactivation speed	10 seconds	10 seconds	10 seconds	30 minutes	10 seconds	5 minutes
Bacterial inactivation efficiency (100% inactivation; CFU/mL)	10 <sup>7</sup> ( <i>P. aeruginosa</i> , <i>S. aureus</i> ), 10 <sup>6</sup> ( <i>M. fortuitum</i> )	1.5 x 10 <sup>6</sup> (TB)	NA	NA	NA	NA
Bacterial inactivation speed	10 minutes	>60 mins (TB)	NA	NA	NA	NA
Extraction platform compatibility	FAVORGEN Viral Nucleic Acid Extraction Kit II, QIAGEN QIAamp Viral RNA Mini Kit, TIANGEN Hi-DNA/RNA Kit, MACHEREY-NAGEL NucleoMag Pathogen Kit	QIAGEN QIAamp DNA Mini Kit, Roche MagNA Pure 96 System, bioMerieux NucliSENS easyMAG	NA	NA	NA	NA



