



# TOTAL SOLUTION FOR NUCLEIC ACID EXTRACTION

Instrument / Reagents Manufacturer  
Filling Line System Service



# TANBead Reagent Kits



## Pre-filled Reagent

The TANBead pre-filled reagent kits can be easily loaded into TANBead instruments for nucleic acid extraction without massive sample pre-treatments to reduce labor costs and hands-on-time.



# Blood DNA Extraction

## Introduction

The TANBead Blood DNA Kit is designed for rapid, reliable, automated purification of DNA from blood samples. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, HLA-typing, and sequencing.

## Key features

- Automated magnetic beads-based nucleic acid extraction technology
- High yield and high-quality nucleic acids
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Blood DNA Kit

Specification	
Samples	Whole blood, frozen blood, buffy coat
Operation time	40 - 50 min
Reagent kits	61E series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR-based HLA-typing, and NGS analysis

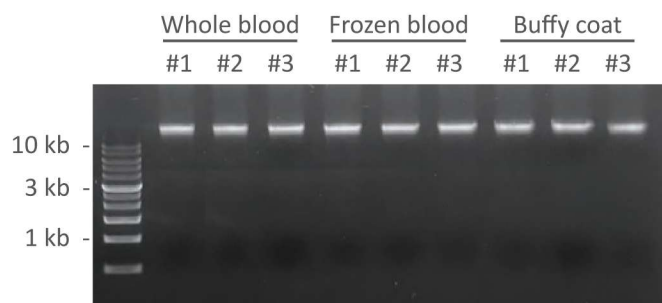
**Table 1.**

The yield and quality of extracted DNA from 300 µL whole blood samples using the 61E kit.

	Mean	SD
Yield (µg)	4.15	0.21
Quality A260/A280	1.93	0.02

**Figure 1.**

Extracted DNA integrity was examined by gel electrophoresis from the whole blood, frozen blood and buffy coat samples using the 61E kit.





# Blood RNA Extraction

## Introduction

The TANBead Blood RNA Kit is designed for rapid, reliable, automated purification of RNA from blood samples. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as real-time PCR and RT-PCR.

## Key features

- Purify RNA from the whole blood sample
- High yield and high-quality nucleic acids
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Blood RNA Kit

Specification	
Samples	Whole blood
Operation time	30 - 40 min
Reagent kits	621 series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	RT-PCR and RT-qPCR

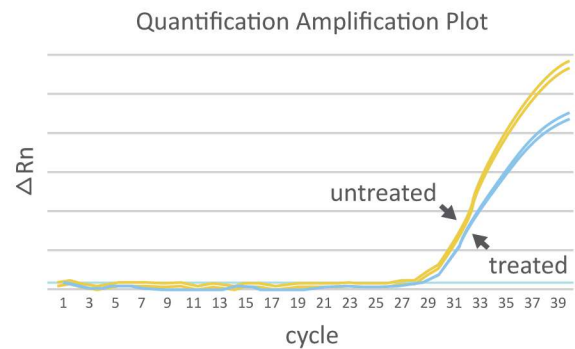
**Table 1.**

The yield and quality of the extracted RNA from 100  $\mu$ L of whole blood samples by using the 621 kit.

	Mean	SD
Yield (ng)	8.66	0.16
Quality A260/A280	2.00	0.10

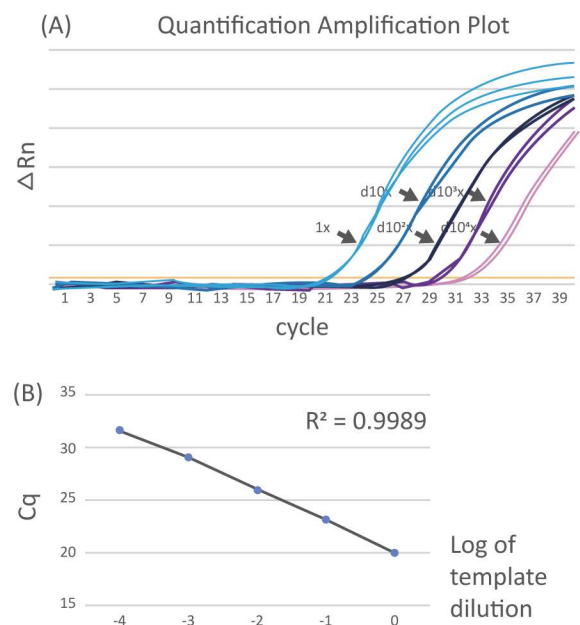
**Figure 1.**

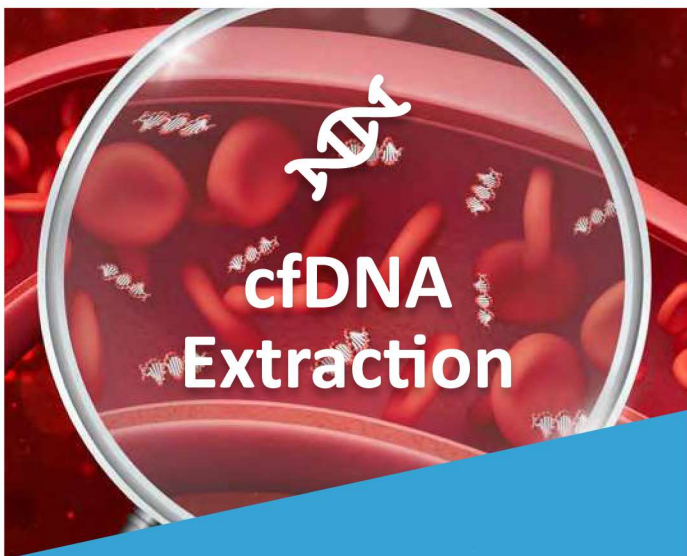
RNA is dominant in the extracted nucleic acid by examining the GAPDH expression levels in presence or absence of DNase I treatment. The mean Cq value of the untreated group is  $28.83 \pm 0.67$ , and that of the treated group is  $29.08 \pm 0.45$ .



**Figure 2.**

(A) The GAPDH products were successfully amplified in extracted RNA in a 10-fold serial dilution manner. (B) Each dilution was demonstrated in the linear relationship of Cq values. The mean Cq value of each amplification is  $20.22 \pm 0.18$ ,  $23.52 \pm 0.15$ ,  $26.00 \pm 0.14$ ,  $29.11 \pm 0.14$ , and  $31.93 \pm 0.43$ .








### Introduction

The TANBead cfDNA Kit is designed for rapid, reliable, automated purification of cfDNA from blood samples. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, and sequencing for oncology application.

### Key features

-  Automated magnetic beads-based nucleic acid extraction technology
-  High yield and high-quality nucleic acids
-  Provides choices with different sample inputs, such as 8, 24, 48, 96 tests per run

### The TANBead® cfDNA Kit

Specification	
Samples	Serum or plasma
Operation time	60 - 70 min
Reagent kits	61C series, L91C
Extraction system	Maelstrom 8 / Maelstrom 24 series / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR and NGS analysis

**Table 1.**

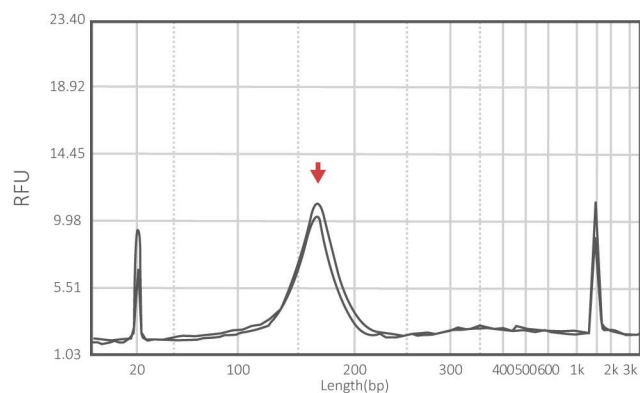
The yield and integrity measurement of the extracted cfDNA from 4mL serum or plasma samples using the L91C kit on Maelstrom 24 series.

Sample	yield (ng)	Alu115 (ng)	Integrity
			Alu247/Alu115
Serum	88.9	2.56	0.2
Plasma	20.3	1.43	0.49

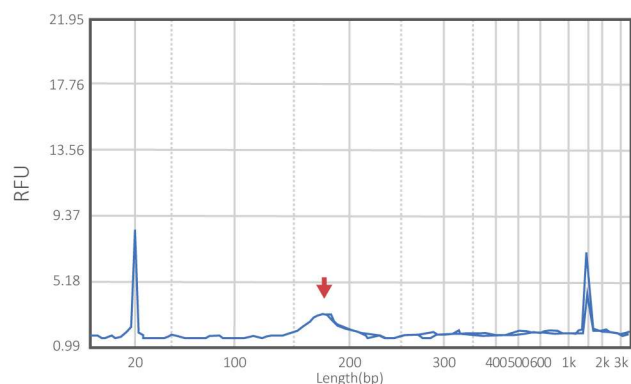
**Figure 1.**

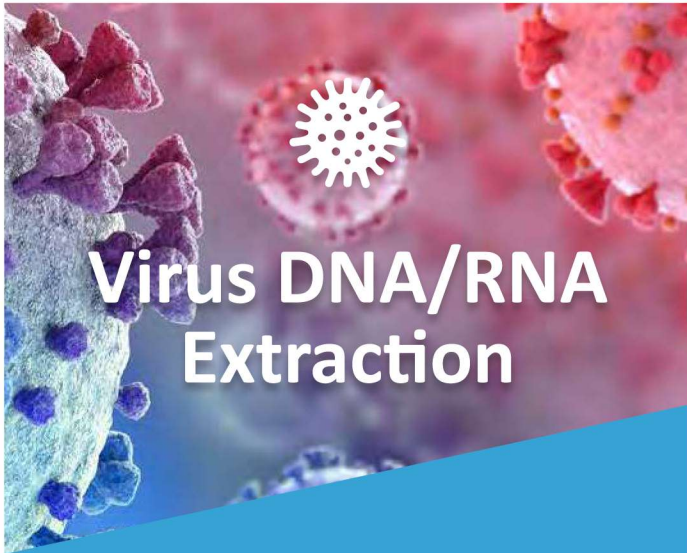
The fragment size (red arrow) of extracted cfDNA from the serum (A) or plasma (B) samples were examined by capillary electrophoresis.

**(A) Serum**



**(B) Plasma**





# Virus DNA/RNA Extraction

## Introduction

The TANBead Virus DNA/RNA Kit is designed for rapid, reliable, automated purification of nucleic acids from various sample types. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughout and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, RT-PCR, RT-qPCR and sequencing.

## Key features

- Automated magnetic beads-based nucleic acid extraction technology
- High yield and high-quality nucleic acids
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Virus DNA/RNA Kit

Specification	
Samples	Serum, plasma, swabs, sputum, or bronchoalveolar lavage (BAL)
Operation time	30 - 40 min
Reagent kits	615 series (DNA) 635 series (RNA) 665 series (DNA/RNA)
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR and sequencing

Figure 1.

The virus fragment was stably amplified in the extracted RNA that was isolated from samples containing various concentrations of HCV standard template. The sample types, including swab (A), sputum (B) and BAL (C) were examined.

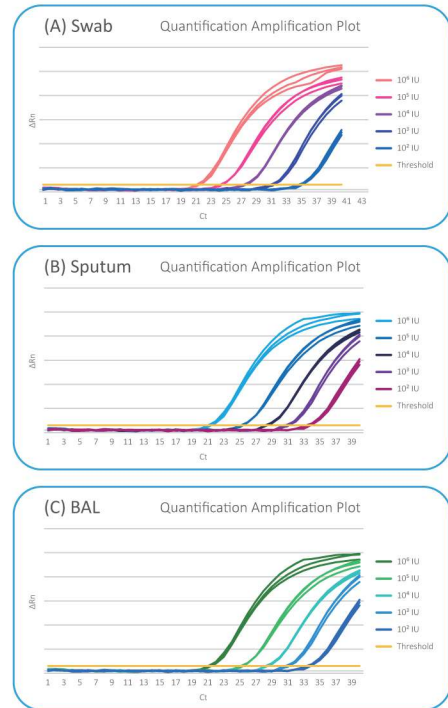
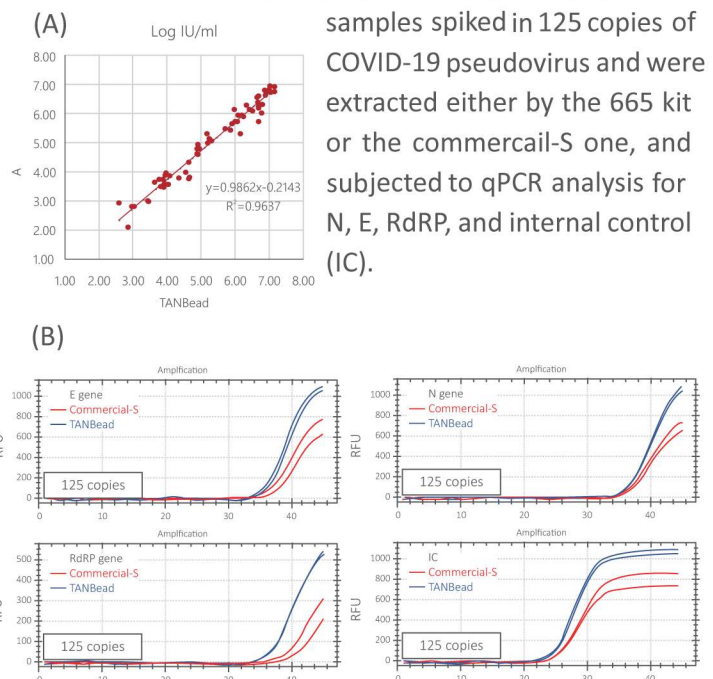


Figure 2.

(A) In sixty HCV positive samples, a high correlation between TANBead viral extraction kit and commercial-A all-in-one sample preparation and detection system was demonstrated. (X-axis: Log IU/ml of HCV RNA extracted by the 665 kit. Y-axis: Log IU/ml of HCV RNA extracted by commercial-A sample preparation system.) (B) The samples spiked in 125 copies of COVID-19 pseudovirus and were extracted either by the 665 kit or the commercial-S one, and subjected to qPCR analysis for N, E, RdRP, and internal control (IC).








# Virapid Virus Extraction

## Introduction

The TANBead Virapid Viral Extraction Kit is designed for those who were struggling to isolate nucleic acids from viral samples. Our technology provides the solution to complete the whole extraction processes in about 15 minutes. The extracted nucleic acids can be applied to applications, such as PCR, qPCR and RT-PCR.

## Key features

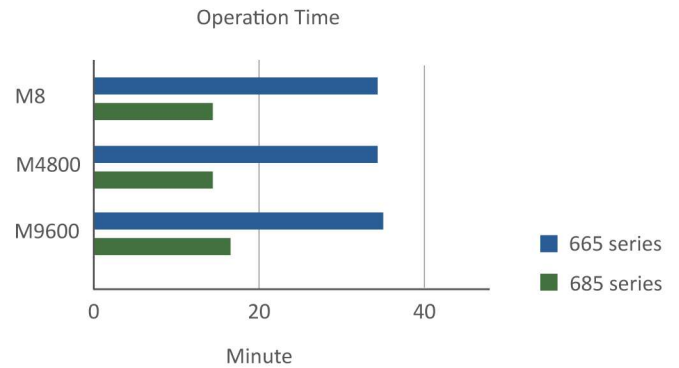
-  Simply transfer the sample to the pre-filled plate/tube for extraction without adding proteinase K additionally
-  Ultra-fast process which takes only about 15 minutes
-  Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Virapid Virus Kits

Specification	
Samples	Nasal, nasopharyngeal, or oropharyngeal swab, saliva, urine
Operation time	14 - 17 min
Reagent kits	685 series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR, RT-PCR

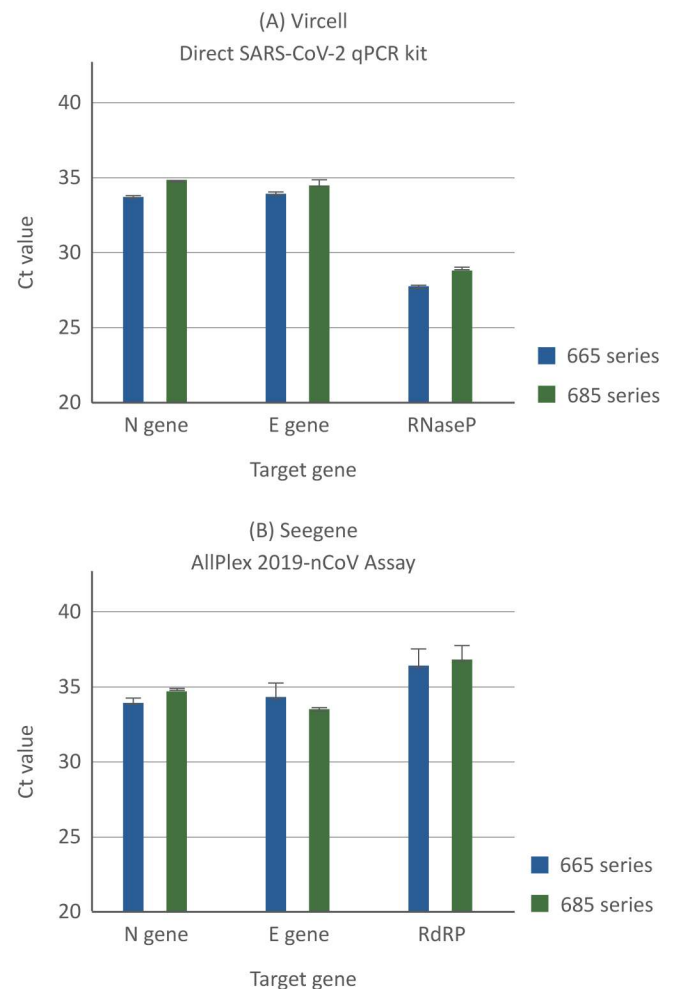
**Figure 1.**

The automatic extraction operation time of the 685 series kits were shown as below: 16.33 min (M9600), 14.23 min (M4800), 14.31 min (M8).



**Figure 2.**

The extraction performance of the M685A46 kit was examined by three qPCR kits, (A) Vircell, (B) Seegene, (C) SolGent, and the results indicated the M685A46 kit has a comparable extraction performance to the M665A46 kit. The 500 copies of COVID-19 pseudovirus were spiked in the virus transportation medium (VTM) as samples used for each extraction.



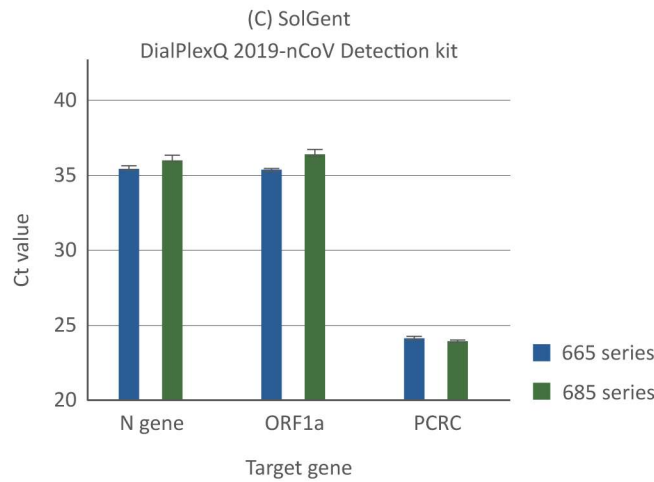


Figure 3.

The M685A46 kit was used for saliva or urine samples viral nucleic acids extraction, the results showed the M685A46 kit could also be used for saliva or urine samples extraction. The 500 copies of COVID-19 pseudovirus were spiked in the saliva or urine as samples used for each extraction.

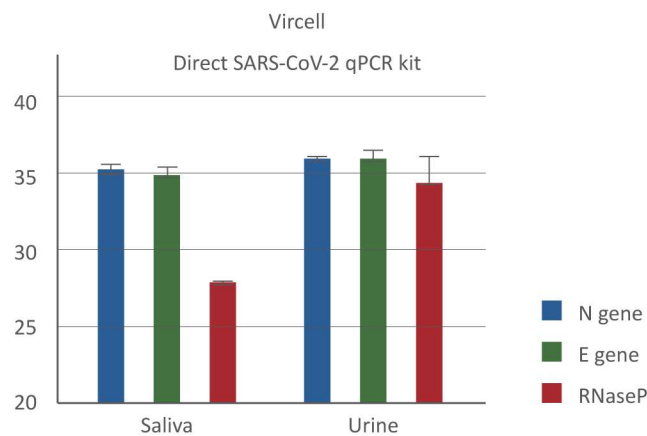
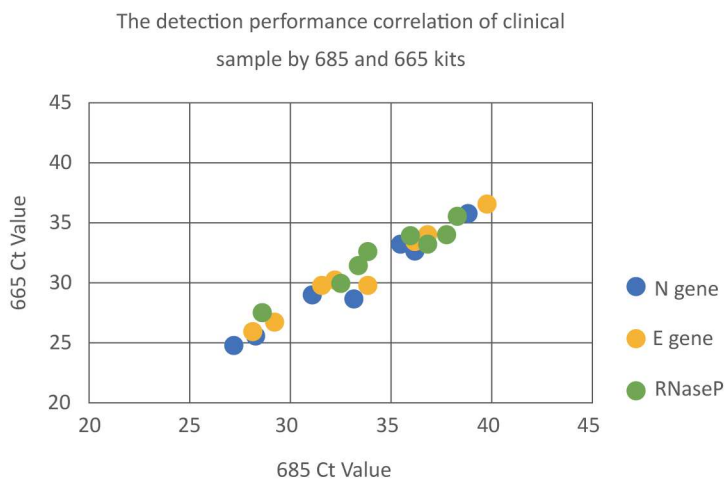


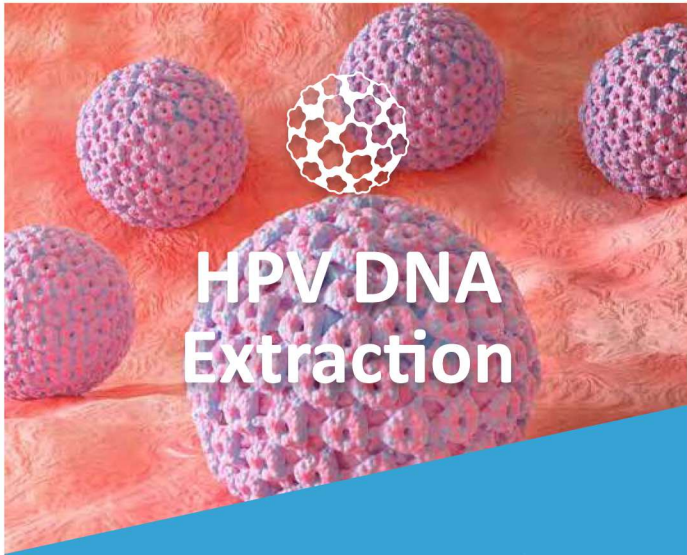
Figure 4.

Eight clinical samples were subjected to nucleic acids extraction by using the 685 and 665 kits, and the extracts was analyzed by Vircell - DIRECT SARS-COV-2 REALTIME PCR KIT. The results showed the high correlation of Ct values of N, E and RNaseP genes.



	N gene	E gene	RNaseP
Ct value correlation between 2 kits	0.982	0.985	0.978





# HPV DNA Extraction

## Introduction

The TANBead HPV DNA Nucleic Acid Extraction Kit is designed to perform HPV nucleic acid extractions. When used with the TANBead Nucleic Acid Extraction System, the one-step-to-extraction can be performed automatically. The cervical swab or liquid based cytology samples are processed through a series of automatic extraction steps and the high-quality nucleic acids can be applied directly to further applications. The extracted nucleic acids could be applied to qualitative and quantitative molecular analyses, such as real-time PCR.

## Key features

- Automated magnetic beads-based nucleic acid extraction technology and prefilled reagent system
- Mucus specimens are applicable by a simple pretreatment step
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® HPV DNA Kit

Specification	
Samples	cervical swab, liquid based cytology samples
Operation time	30 - 40 min
Reagent kits	61H series
Extraction system	Maelstrom 8 / Maelstrom 48 series Maelstrom 96 series
Applications	PCR and qPCR

Figure 1.

The virus fragment was stably amplified in the extracts from samples containing various concentrations of cervix cells which were integrated by human papilloma-virus type 16 genome. The sample types including (a) cervical swab and (b) liquid based cytology, were examined.

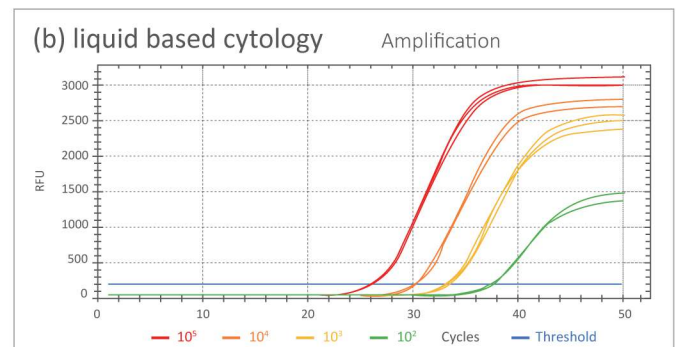
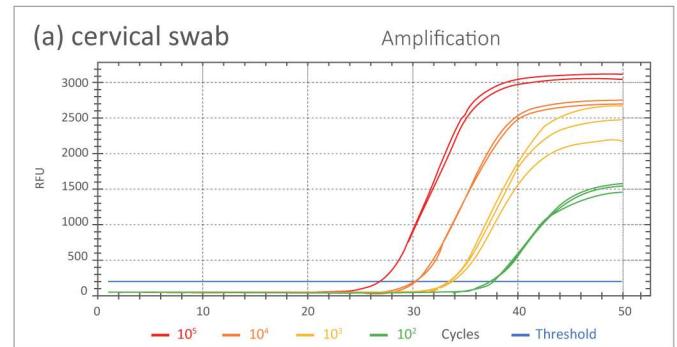
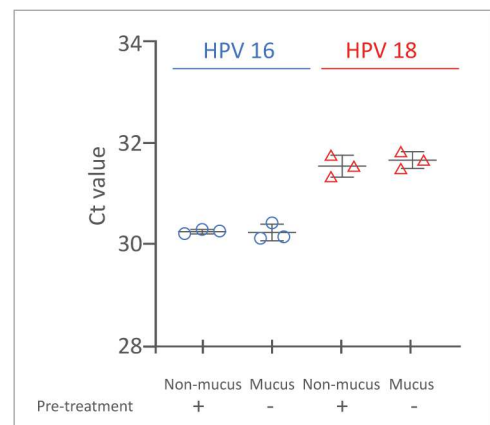


Figure 2.

The 61H kit can perform stable nucleic acid extractions of the mucus or non-mucus specimens. The SiHa cells integrated by HPV 16 genome, or the RWPE-1 cells integrated by HPV 18 genome were subjected to nucleic acid extractions and qPCR analysis. The Ct value results of mucus samples were similar to those of non-mucus samples.








# Bacteria DNA Extraction

## Introduction

The TANBead Bacteria DNA Kit is designed for rapid, reliable, automated purification of nucleic acids from gram(-), gram(+) and other atypical bacteria samples. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, and sequencing.

## Key features

-  Automated magnetic beads-based nucleic acid extraction technology
-  High yield and high-quality nucleic acids
-  Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Bacteria DNA Kit

Specification	
Samples	Sputum, bronchoalveolar lavage (BAL), or cultured bacteria
Operation time	50-60 min
Reagent kits	61G series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR, and sequencing

**Table 1.**

The yield and quality of extracted DNA from 10<sup>6</sup> *Salmonella* or *Staphylococcus* using the 61G kit.

	<i>Salmonella</i>		<i>Staphylococcus</i>	
	Mean	SD	Mean	SD
Yield (µg)	33.1	0.8	34.3	0.21
Quality A260/A280	2.06	0.02	2.04	0.04

**Figure 1.**

Genomic DNA from 14 gram-positive and gram-negative bacteria is well isolated by the 61G kit.



- |                           |                           |
|---------------------------|---------------------------|
| 1: <i>Bacillus</i>        | 8: <i>Cupriavidus</i>     |
| 2: <i>Microbacterium</i>  | 9: <i>Duganella</i>       |
| 3: <i>Massilia</i>        | 10: <i>Flavobacterium</i> |
| 4: <i>Paenibacillus</i>   | 11: <i>Lactobacillus</i>  |
| 5: <i>Corynebacterium</i> | 12: <i>Weissella</i>      |
| 6: <i>Escherichia</i>     | 13: <i>Leuconostoc</i>    |
| 7: <i>Sphingomonas</i>    | 14: <i>Burkholderia</i>   |






# Tissue DNA Extraction

## Introduction

The TANBead Tissue DNA Kit is designed for rapid, reliable, automated purification of DNA from tissues and cells. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, and sequencing.

## Key features

-  Automated magnetic beads-based nucleic acid extraction technology
-  High yield and high-quality nucleic acids
-  Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Tissue DNA Kit

	Specification
Samples	Tissues or cells
Operation time	50-60 min
Reagent kits	6T2 series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR and Southern blot

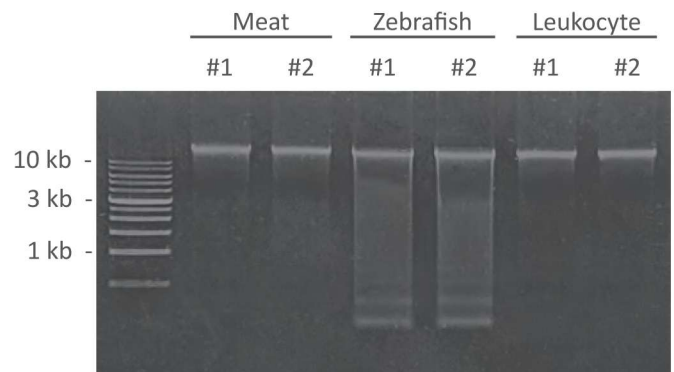
**Table 1.**

The yield and quality of extracted DNA from meat, zebrafish, or cells using the 6T2 kit.

	50 mg meat		50 mg zebrafish		10 <sup>6</sup> cells	
	Mean	SD	Mean	SD	Mean	SD
Yield (µg)	31.09	0.61	29.29	0.54	22.52	0.01
Quality A260/A280	1.81	0.02	1.8	0	1.98	0.51

**Figure 1.**

Extracted DNA integrity was examined by gel electrophoresis from meat, zebrafish, or leukocyte by the 6T2 kit.








# Tissue RNA Extraction

## Introduction

The TANBead Tissue RNA Kit is designed for rapid, reliable, automated purification of RNA from tissues and cells. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughout and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as RT-PCR.

## Key features

-  Automated magnetic beads-based nucleic acid extraction technology
-  High yield and high-quality nucleic acids
-  Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Tissue RNA Kit

Specification	
Samples	Tissues or cells
Operation time	30-40 min
Reagent kits	6K2 series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	RT-PCR, qRT-PCR and Northern blot

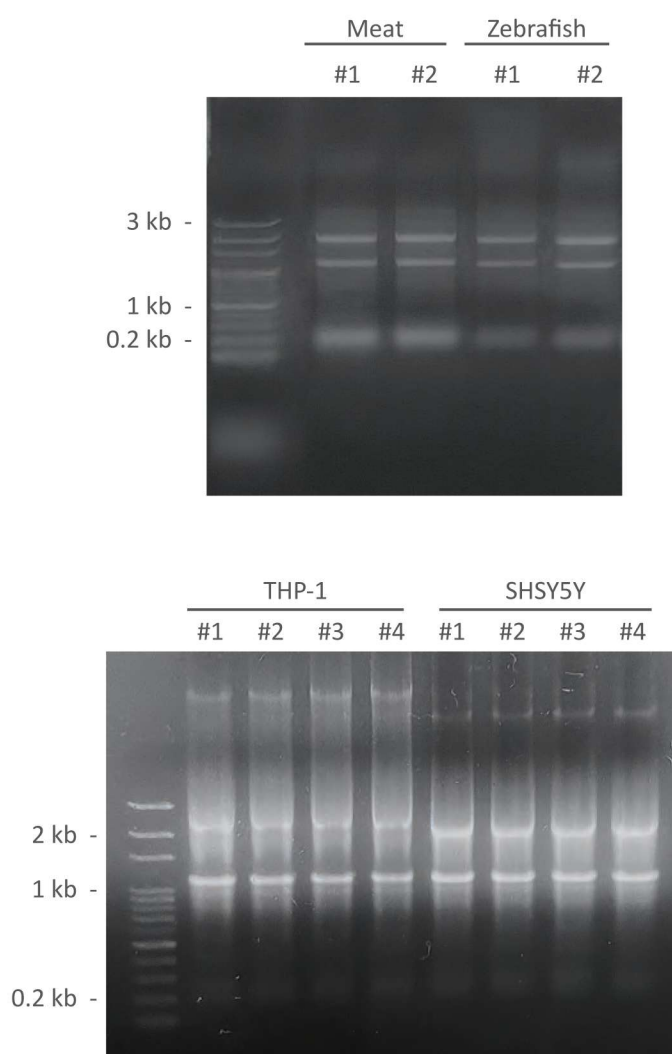
**Table 1.**

The yield and quality of extracted RNA from zebrafish, meat and cells (THP-1 or SHSY5Y) using the 6K2 kit.

	Zebrafish	Meat	THP-1	SHSY5Y
Yield (µg)	15.21±1.12	12.12±0.65	18.34±0.81	26.29±1.05
Quality A260/A280	1.94±0.01	1.95±0.03	1.98±0.01	1.99±0.02

**Figure 1.**

Extracted RNA integrity was examined by gel electrophoresis from 30 mg of zebrafish, 30 mg of meat and 10<sup>6</sup> THP-1 or SHSY5Y cells by the 6K2 kit.








## Introduction

The TANBead FFPE DNA Kit is designed for rapid, reliable, automated purification of DNA from FFPE samples. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, and sequencing.

## Key features

-  Uses as little as 5  $\mu\text{m}$  thickness of FFPE sample
-  Saves pretreatment time
-  No toxic solvents are used during the extraction process

## The TANBead® FFPE DNA Kit

	Specification
Samples	FFPE
Operation time	30-40 min
Reagent kits	61P series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR, and sequencing

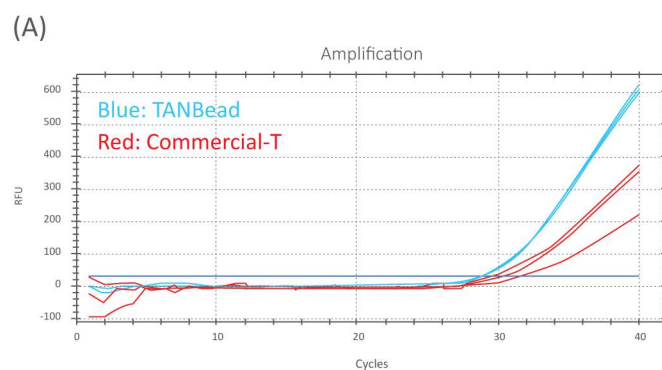
**Table 1.**

The FFPE sample nucleic acid extractions performance between TANBead FFPE kits and Commercial-T FFPE kits (20 mg Pig liver FFPE samples were used for extraction)

Extraction System	Conc. (ng/ $\mu\text{L}$ )	Yield ( $\mu\text{g}$ )	A260/280
TANBead	137.65 $\pm$ 6.55	11.01 $\pm$ 0.52	1.91 $\pm$ 0.01
Commercial-T	91.67 $\pm$ 0.76	7.70 $\pm$ 0.06	2.00 $\pm$ 0.01

**Figure 1.**

The extracts from TANBead FFPE kits and Commercial-T FFPE kits were evaluated by qPCR analysis: (A) amplification curve (B) Ct values



(B)

Extraction System	Mean Ct
TANBead	28.78 $\pm$ 0.18
Commercial-T	31.06 $\pm$ 0.88



# Stool DNA Extraction

## Introduction

The TANBead Stool DNA Kit is designed for rapid, reliable, automated purification of DNA from stool samples. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, sequencing (microbiome profiling).

## Key features

- Can acquire both microbial and the host DNA from stool samples
- Provides appropriate lysis buffers for either omnivorous or herbivorous species
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Stool DNA Kit

Specification	
Samples	Stool
Operation time	30-40 min
Reagent kits	6SC series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR, qPCR, and NGS analysis

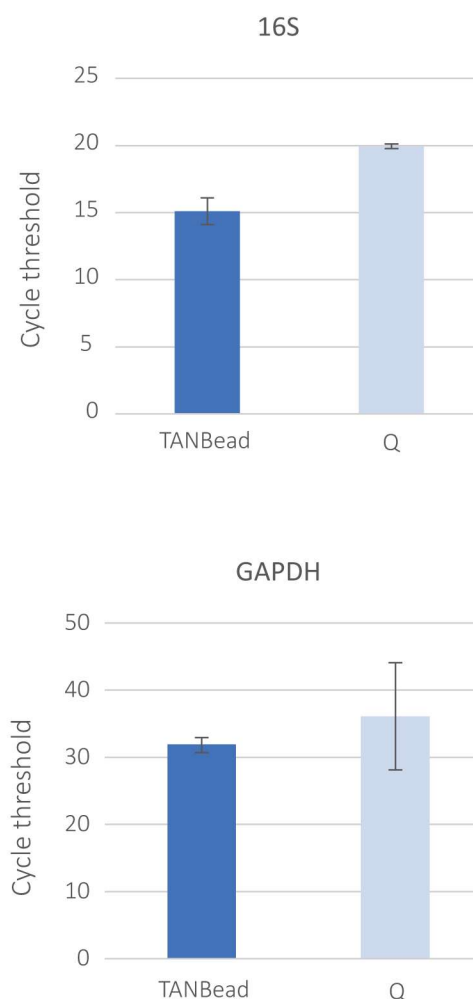
**Table 1.**

The yield comparison of extracted stool DNA using the 6SC kit and the commercial-Q kit.

Supplier	TANBead		Q	
	Mean	SD	Mean	SD
Yield (ng/μL)	130.1	2.4	11.9	0.4

**Figure 1.**

The extracted stool DNA was subjected to 16S rDNA (indicates bacteria) or GAPDH (indicates human) qPCR analysis, and the Ct values of using the 6SC kit-extracted DNA as a template was lower than that of using the commercial-Q kit.



**Table 2.**

The yield measurement and 16s qPCR analysis of the extracted DNA from the stool sample from omnivorous or herbivorous species.

Species	Incubation buffer 1: Omnivorous Buffer		Incubation buffer 2: Herbivorous Buffer	
	Yield (µg)	Ct Mean	Yield (µg)	Ct Mean
Cat	14.53±1	27.37±0.62	5.22±0.51	29.32±0.32
Dog	26.58±0.67	17.14±0.36	2.38±0.39	19.56±0.28
Rabbit	6.4±0.22	NA	3.25±0.6	28.07±0.21
Chinchilla	18.35±3.8	NA	4.08±0.46	28.65±0.18
Goat	3.5±1.25	20.22±0.66	5.03±1.42	20.1±0.51
Tortoise	10.15±1.59	28.14±0.71	5.2±2.02	28.16±0.6
Guinea Pig	37.5±7.60	27.63±0.74	33.8±15.64	27.62±1.16
Cow	4.53±0.3	29.99±0.43	7.3±1.1	29.48±0.46

**Table 3.**

The yield and qPCR analysis of the extracted DNA from the stool sample spiked in *Giardia lamblia* cyst parasites were examined.

TANBead				
Species	Yield (µg)	SD	Ct	SD
Human	32.68	0.1	29.53	0.17
Cat	14.71	0.06	31.7	0.23
Dog	40.42	0.04	32.35	0.25



### Introduction

The TANBead Plant DNA Kit is designed for rapid, reliable, automated purification of DNA from plant materials. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughout and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, and sequencing.

### Key features

- Automated magnetic beads-based nucleic acid extraction technology
- High yield and high-quality nucleic acids
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

### The TANBead® Plant DNA Kit

Specification	
Samples	Leaf , seed or rice grain
Operation time	613 30-40 min 619 100-120 min
Reagent kits	613 series, 619 series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	PCR-based genotyping assay and qPCR

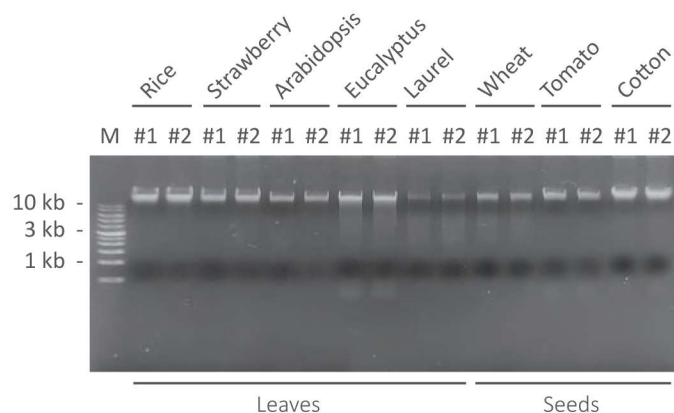
**Table 1.**

The yield and quality of extracted DNA from plant samples using the 613 kit.

Sample type		Yield (µg)	Quality 260/280
Leaves	Rice	4.93±0.13	1.82±0.02
	Strawberry	4.79±0.53	1.37±0.05
	Arabidopsis	3.41±0.04	1.89±0.06
	Eucalyptus	5.84±0.62	1.67±0.11
	Laurel	2.5±0.03	1.98±0.01
Seeds	Wheat	2.11±0.22	1.88±0.04
	Tomato	4.19±0.03	1.84±0.01
	Cotton	15.05±0.24	1.82±0.02

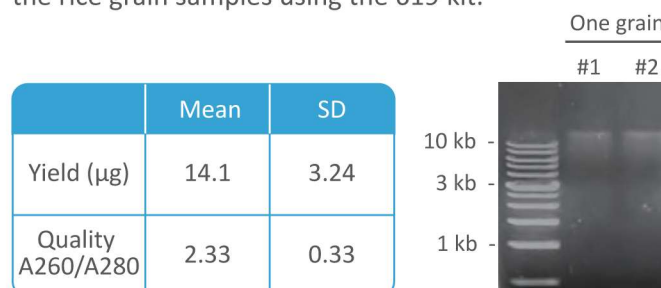
**Figure 1.**

Extracted DNA integrity was examined by gel electrophoresis from the plant samples by the 613 kit.



**Figure 2.**

The yield, quality and integrity of extracted DNA from the rice grain samples using the 619 kit.





**Table 2.**

The DNA of various leaves were extracted by using the M613-SE kit.

Plant leaves	Conc. (ng/ $\mu$ L)
Fern	16.1
<i>Cunninghamia lanceolata</i>	9.4
<i>Juniper us chinensis L. var. kaizuka</i>	25.2
<i>Pinaceae</i>	6.2
<i>Podocarpus macrophyllus</i>	11.9
<i>Commelina communis L.</i>	27.1
<i>Bambusoideae</i>	36.8
<i>Egeria densa</i>	19.6
<i>Orchidaceae, Orchid</i>	22.3
<i>Saccharum</i>	43.6
<i>Areca catechu</i>	27.25
<i>Oryza sativa, Rice</i>	32.03
<i>Trachycarpus fortunei, Palm</i>	27.25
<i>Scheffera arboricola</i>	17
Melon	22.9
Cabbage	3.4
<i>Trifolium hybridum</i>	16.7
<i>Phoebe zhennan</i>	13.8
<i>Prunus subgen. Cerasus</i>	28.3
<i>Psidium guajava</i>	28.4
<i>Aronia melanocarpa</i>	30
<i>Fructus Mori</i>	18.4
<i>Corymbia citriodora</i>	27.4
<i>Melaleuca alternifolia</i>	36.5
<i>Eucalyptus robusta</i>	41.5
<i>Camellia sinensis</i>	47.1
<i>Liquidambar formosana</i>	12.6
<i>Osmanthus fragrans</i>	12.5
<i>Codiaeum variegatum</i>	53.6
<i>Acacia confusa</i>	41.7
<i>Carica papaya</i>	26.4
<i>Rosa rugosa, Rose leaf</i>	35.2
<i>Rosa rugosa, Rose petal</i>	8.3
<i>Passiflora edulis</i>	26.3
<i>Celosia cristata</i>	12.7
<i>Corymbia citriodora</i>	18.7
<i>Laurus nobilis</i>	14.3
<i>Arabidopsis thaliana</i>	24.77
<i>Fragaria <math>\times</math> ananassa, Strawberry</i>	37.29

**Table 3.**

The DNA of various seeds were extracted by using the M613-SE kit.

Plant seeds	Conc. (ng/ $\mu$ L)
<i>Zea mays, Corn</i>	10.0
<i>Hordeum vulgare, Barley</i>	10.2
<i>Triticum aestivum</i>	17.4
<i>Arabidopsis thaliana</i>	51.1
<i>Sesamum indicum</i>	8.6
<i>Cucumis sativus, Cucumber</i>	16.0
<i>Cucurbita pepo, Pumpkin</i>	10.8
<i>Abelmoschus esculentus</i>	14.1
<i>Fragaria <math>\times</math> ananassa, Strawberry</i>	13.3
<i>Solanum lycopersicum, Tomato</i>	32.4
<i>Solanum melongena, Egg Plant</i>	17.0
Cotton	117.1
<i>Alstonia scholaris</i>	9.4



# Plant RNA Extraction

## Introduction

The TANBead Plant RNA Kit is designed for rapid, reliable, automated purification of RNA from leaves or seeds. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughout and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as RT-PCR.

## Key features

- Automated magnetic beads-based nucleic acid extraction technology
- High yield and high-quality nucleic acids
- Provides choices with different sample inputs, such as 8, 48, 96 tests per run

## The TANBead® Plant RNA Kit

Specification	
Samples	Leaf or seed
Operation time	30-40 min
Reagent kits	6K3 series
Extraction system	Maelstrom 8 / Maelstrom 48 series / Maelstrom 96 series
Applications	RT-PCR, qRT-PCR and Northern blot

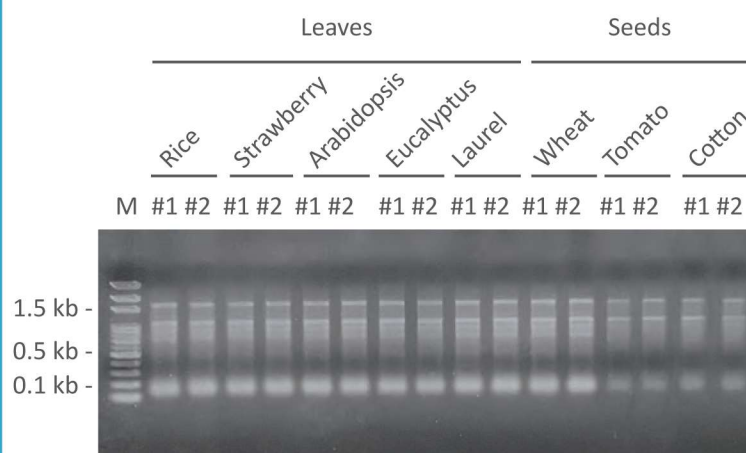
**Table 1.**

The yield and quality of extracted RNA from plant samples using the 6K3 kit.

Sample type		Yield (µg)	260/280
Leaves	Rice	6.46±0.16	1.97±0.01
	Strawberry	6.46±0.18	1.97±0.01
	Arabidopsis	6.12±0.24	1.95±0
	Eucalyptus	6.17±0.10	1.94±0.04
	Laurel	6.18±0.22	1.96±0.01
Seeds	Wheat	6.68±0.20	1.95±0.04
	Tomato	4.45±0.15	1.72±0.06
	Cotton	4.9±0.04	2.06±0.18

**Figure 1.**

Extracted RNA integrity was examined by gel electrophoresis from the leaves or seeds by the 6K3 kit.








# Fungi DNA Extraction

## Introduction

The TANBead Fungi DNA Kit is designed for rapid, reliable, automated purification of DNA from fungi cultures. Our magnetic beads-based technology with our corresponding extraction system can provide you automated, high-throughput and easy-to-use nucleic acid extractions. The extracted nucleic acids can be applied to various applications, such as PCR, qPCR, and sequencing.

## Key features

-  Automated magnetic beads-based nucleic acid extraction technology
-  High yield and high-quality nucleic acids
-  Provides choices with different sample inputs, such as 8, 48 tests per run

## The TANBead® Fungi DNA Kit

Specification	
Samples	Fungi
Operation time	40-50 min
Reagent kits	61F series
Extraction system	Maelstrom 8 / Maelstrom 48 series
Applications	PCR and qPCR

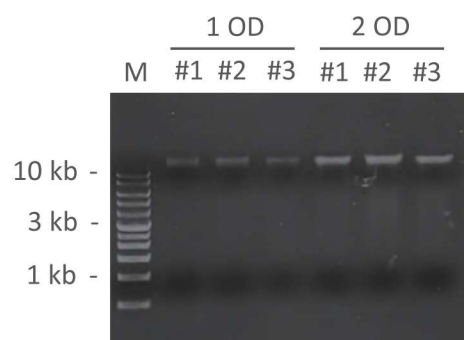
**Table 1.**

The yield and quality of extracted DNA from yeast using the 61F kit.

	1 OD		2 OD	
	Mean	SD	Mean	SD
Yield (µg)	0.39	0.02	0.81	0.035
Quality A260/A280	1.96	0.021	1.95	0.01

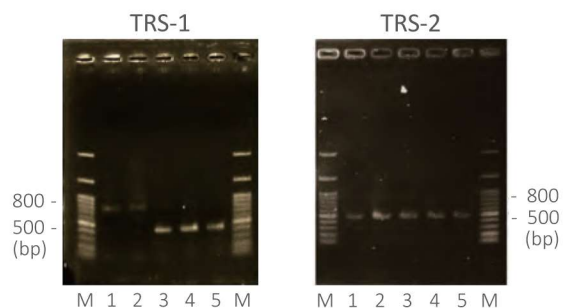
**Figure 1.**

Extracted DNA integrity was examined by gel electrophoresis from the yeast samples by the 61F kit.



**Figure 2.**

PCR amplification of the tandemly repetitive subelements (TRS)-1 and TRS-2 subrepeat element from five isolates of *T. rubrum*. (Chien-yio Lin, 2018)



1: scalp 2: scalp 3: scalp  
4: right sole 5: right big toe

### Reference.

Chien-yio Lin, Hsiu-Jung Lo, Ming-Gen Tu et al. The survey of tinea capitis and scalp dermatophyte carriage in nursing home residents. *Medical Mycology*. 2018; 56:180-185.

**Reagent Kit with : Maelstrom 8 Autostage, Maelstrom 4800, Maelstrom 4810**

Sample	Description	Test	Reference No.	Ordering No.
Blood	TANBead Blood DNA Auto Plate	96	M611A46	301126
	TANBead Blood DNA Auto Tube	96	M611S46	301127
	TANBead OptiPure Blood DNA Auto Plate	96	M61EA46	301128
	TANBead OptiPure Blood DNA Bulk Plate	960	M61EA10	301307
	TANBead OptiPure Blood DNA Auto Tube	96	M61ES46	301129
	TANBead Blood RNA Auto Plate	96	M621A46	301400
	TANBead Blood RNA Auto Tube	96	M621S46	301401
Plant	TANBead Plant DNA Auto Plate	96	M613A46	301134
	TANBead Plant DNA Auto Tube	96	M613S46	301135
	TANBead Plant DNA Auto Plate	96	M613A46-SE	301371
	TANBead Plant DNA Auto Tube	96	M613S46-SE	301372
	TANBead Plant RNA Auto Plate	96	M6K3A46	301383
	TANBead Plant RNA Auto Tube	96	M6K3S46	301384
cfDNA	TANBead OptiPure cfDNA Auto Plate	96	M61CA46	301385
	TANBead OptiPure cfDNA Auto Tube	96	M61CS46	301389
FFPE	TANBead OptiPure FFPE DNA Auto Plate	96	M61PA46	301152
	TANBead OptiPure FFPE DNA Auto Tube	96	M61PS46	301153
Virus	TANBead HBV Auto Plate	96	M615A46	301140
	TANBead HBV Auto Tube	96	M615S46	301141
	TANBead Viral Auto Plate	96	M635A46	301146
	TANBead Viral Auto Tube	96	M635S46	301147
	TANBead OptiPure Viral Auto Plate	96	M665A46	301148
	TANBead OptiPure Viral Auto Tube	96	M665S46	301149
	TANBead OptiPure Viral Bulk Plate	960	M665A10	301346
	TANBead Virapid Viral Auto Plate	96	M685A46	301572
	TANBead Virapid Viral Auto Tube	96	M685S46	301573
	TANBead HPV DNA Auto Plate	96	M61HA46	301431
	TANBead HPV DNA Auto Tube	96	M61HS46	301432
Tissue	TANBead Tissue DNA Auto Plate	96	M612A46	301130
	TANBead Tissue DNA Auto Tube	96	M612S46	301131
	TANBead Tissue Total DNA Auto Plate	96	M6T2A46	301132
	TANBead Tissue Total DNA Auto Tube	96	M6T2S46	301133
	TANBead Tissue Total DNA Bulk Plate	960	M6T2A10	301306
	TANBead Tissue Total DNA Auto Kit	96	M6T2046	301260
	TANBead Tissue RNA Auto Plate	96	M6K2A46	301366
	TANBead Tissue RNA Auto Tube	96	M6K2S46	301367
Fungi	TANBead Fungi DNA Auto Plate	96	M61FA46	301150
	TANBead Fungi DNA Auto Tube	96	M61FS46	301151
Forensic	TANBead Forensic DNA Auto Plate	96	M6TFA46	301424
	TANBead Forensic DNA Auto Tube	96	M6TFS46	301425
Bacteria	TANBead Gram Bacteria DNA Auto Plate	96	M61GA46	301138
	TANBead Gram Bacteria DNA Auto Plate	96	M61GA46-SE	301294
	TANBead Gram Bacteria DNA Auto Tube	96	M61GS46	301139
	TANBead Gram Bacteria DNA Auto Tube	96	M61GS46-SE	301295
	Microbiome DNA Auto Plate	96	M6MBA46	301375
	Microbiome DNA Auto Tube	96	M6MBS46	301376
Stool	TANBead Stool Cell DNA Auto Plate	96	M6SCA46	301387
	TANBead Stool Cell DNA Auto Tube	96	M6SCS46	301388

Sample	Description	Test	Reference No.	Ordering No.
Pathogen	TANBead STIs Extraction Auto Plate	96	M6STA46	301414 *
	TANBead STIs Extraction Auto Tube	96	M6STS46	301415 *

\* for 48 series dedicated

### Reagent Kit with : Maelstrom 9600, Maelstrom 9610

Sample	Description	Test	Reference No.	Ordering No.
Blood	TANBead Blood DNA Auto Plate	96	W611A46	301186
	TANBead OptiPure Blood DNA Auto Plate	96	W61EA46	301188
	TANBead OptiPure Blood DNA Auto Tube	72	W61ES66	301189
	TANBead Blood RNA Auto Plate	96	W621A46	301402
	TANBead Blood RNA Auto Tube	72	W621S66	301403
	TANBead Dried Blood Spot Auto Plate	96	W61EA46-BS	301435
Plant	TANBead Plant DNA Auto Plate	96	W613A46	301194
	TANBead Plant DNA Auto Tube	72	W613S66	301259
	TANBead Plant DNA Auto Plate	96	W613A46-SE	301379
	TANBead Plant DNA Auto Tube	72	W613S66-SE	301378
	TANBead Plant RNA Auto Plate	96	W6K3A46	301406
	TANBead Plant RNA Auto Tube	72	W6K3S66	301407
cfDNA	TANBead OptiPure cfDNA Auto Plate	96	W61CA46	301377
	TANBead OptiPure cfDNA Auto Tube	72	W61CS66	301386
Virus	TANBead HBV Auto Plate	96	W615A46	301200
	TANBead HBV Auto Tube	72	W615S66	301201
	TANBead Viral Auto Plate	96	W635A46	301206
	TANBead Viral Auto Tube	72	W635S66	301258
	TANBead OptiPure Viral Auto Plate	96	W665A46	301224
	TANBead OptiPure Viral Bulk Plate	960	W665A10	301345
	TANBead OptiPure Viral Auto Tube	72	W665S66	301209
	TANBead Virapid Viral Auto Plate	96	W685A46	301574
	TANBead Virapid Viral Auto Tube	72	W685S66	301575
	TANBead HPV DNA Auto Plate	96	W61HA46	301433
	TANBead HPV DNA Auto Tube	72	W61HS66	301434
Tissue	TANBead Tissue DNA Auto Plate	96	W612A46	301190
	TANBead Tissue DNA Auto Tube	72	W612S66	301191
	TANBead Tissue Total DNA Auto Plate	96	W6T2A46	301192
	TANBead Tissue Total DNA Auto Tube	72	W6T2S66	301193
	TANBead Tissue RNA Auto Plate	96	W6K2A46	301404
	TANBead Tissue RNA Auto Tube	72	W6K2S66	301405
Bacteria	TANBead Gram Bacteria DNA Auto Plate	96	W61GA46	301198
	TANBead Gram Bacteria DNA Auto Tube	72	W61GS66	301199
Stool	TANBead Stool Cell DNA Auto Plate	96	W6SCA46	301392
	TANBead Stool Cell DNA Auto Tube	72	W6SCS66	301391

### Reagent Kit with : Maelstrom 2400, Maelstrom 2410

Sample	Description	Test	Reference No.	Ordering No.
cfDNA	TANBead OptiPure cfDNA Auto Kit	48	L91C045	301411



Address

PO Box 307  
Sewell, NJ 08080



Tel

(856) 530-9990



E-mail

cs@victoryscientific.com



victoryscientific.com

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