3DMed

Auto-Pure96 Nucleic Acid Purification System
96A Viral RNA Auto Extraction & Purification Kit

CE

CE FDA

For professional In-vitro Diagnostic (IVD) Use

Remark:32 channel extraction machine and reagent also available

Intended Use

Auto-Pure 96 Nucleic Acid Purification System is an automated system for purifying DNA and RNA from a variety of sample materials, such as blood, cells and tissue samples.

The 96A Viral RNA Auto Extraction & Purification Kit utilizes magnetic beads-based technology for automated isolation and purification of RNA from biological samples.

Auto-Pure96 Nucleic Acid Purification System

Operational Advantages

- High-throughput: Auto-Pure96 can process 96x1ml samples simultaneously
- Open and multiple functions design can be provided more methods for reagent optimization, and also a reliable choice.
- Touchscreen interface and easy operation, parameters can be tuned based on experimental requirements.
- Accurate temperature control system ensures stability of purification performance.
- Patent structure design with center rotary table which makes it occupies smaller area.
- Patent design for automatic loading and unloading structure of magnetic rod tip comb, which guaranteed stability and liability (Success rate >99.99%)

Specifications

Type	Auto-Pure96
Throughput	1~96
Process volume	50~1000ul
Collection efficiency	>95%
Purification accuracy	100 copy sample positive rate>95%
Stability	CV<5%
Plate types	96 Deepwell plate
Operation	7 inch color touch screen
Pollution Control	UV light
Lighting	Yes
Extension interface	4 standard USB port, built-in SD card
Exhaust	Fan
Power Supply	450W
Dimensions	560×620×500mm
Weight	54Kg

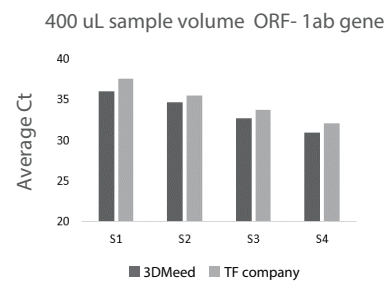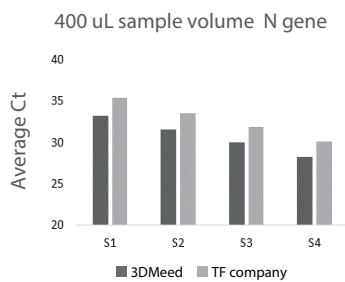# 96A Viral RNA Auto Extraction & Purification Kit

Specifications

Type	96A
Applicable Specimens	Swab, Serum,Plasma,Urine etc.
Volume of Sample	200-400μL
Elution Volume	50μL
Technology	Magnetic beads based
Operation	Fully automated
Turn -around-time	Less than 15 mins
Sample Throughput	96

Components

Component	96 Tests Cat. 3103010059	Storage Condition
Lysis buffer	1 plate	15℃-25℃
Wash buffer A	1 plate	15℃-25℃
Wash buffer B	1 plate	15℃-25℃
Elution buffer	1 plate	15℃-25℃
96 Tip comb	1 piece	15℃-25℃
Proteinase K	1100μL*2	2℃-8℃

Excellent Product Performance

Extraction efficiency

400 uL sample volume N gene

400 uL sample volume ORF- 1ab gene

Samples of 4 gradients (50/150/500/1500copies/mL), respectively use two different extraction reagents (3DMed and TF) on KF96 extractor, then evaluated extraction efficiency according to Ct value. Average Ct of the sample extracted by 3DMed is very close to TF company

Linearity

$$y = -1.4522\ln(x) + 37.501 \quad R^2 = 0.9982$$

400uL sample- SRARS- CoV-2 N

$$y = -1.48\ln(x) + 40.048 \quad R^2 = 0.9981$$

400uL sample- SRARS- CoV-2 ORF-1ab
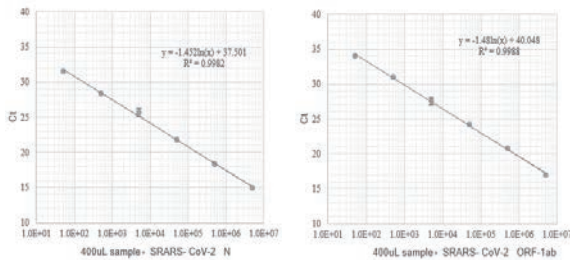
Select the samples of 6 gradient, respectively extract them by using sample volume of 200 uL and 400 uL. There were 4 replicates of each sample. The rate of recovery and linearity were good

Precision

N（200μL）
ORF-1ab（200μL）
N（400μL）
ORF-1ab（400μL）
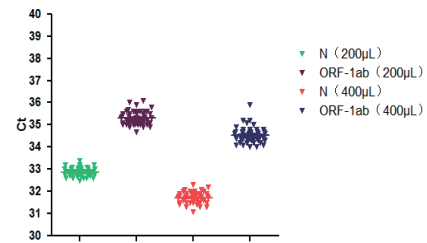
Extracted 48 samples and get CV values of Ct value are less than 2% by means of qPCR detection

Reliable
- Average Ct of the sample extracted by 3DMed is very close to ThermoFisher
- CV values of Ct value **< 2%** by means of qPCR detection

Efficient
- Process 96 samples in **≤ 15mins** by "3DMed-KF96" program.
- **2X** efficiency than general

Convenient
- **Prifilled** plates, less labor needs.

Economical
- **60%** Cost reduction