

Cat. No. 302-150, 302-103

Ribospin™ vRD

kit for viral RNA/DNA isolation

Easy and
Highly Effective
Isolation of
Viral RNA/DNA

COVID-19 in-vitro diagnostic devices approved
by Korea Ministry of Food and Drug Safety



Rapid

Viral RNA and DNA isolation with fast column
in as little as 20 minutes



Versatile

Accommodate diverse sample types ranging
from plasma, serum, urine and swab



Efficient

High quality of isolated nucleic acid suitable for
demanding downstream applications



Safe

No organic extraction

Ribospin™ vRD Kit

Easy and highly effective isolation of viral RNA and DNA from cell-free body fluids, urine, and swab with fast spin-column.

Introduction

Nucleic acid amplification-based diagnostics is known as one of the molecular diagnostic assays that allows higher sensitive detection of pathogens such as virus and bacteria.

Since high quality of nucleic acids in the starting samples is a key factor for the accuracy of nucleic acid amplification-based diagnostics, nucleic acid extraction could be defined as the most critical step to obtain nucleic acid samples.

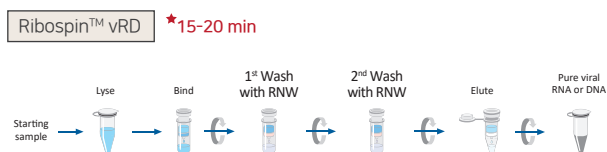
The Ribospin vRD Kits utilize the selective binding nucleic acid of the unique GeneAll silica membrane to isolate pure viral DNA and RNA. With fast spin column, it allows for simplicity in the purification of viral RNA and DNA.

The high-quality viral RNA and DNA isolated using Ribospin vRD kit performs well in a broad range of downstream applications such as PCR, RT-PCR, RT-qPCR and etc.

Features

- Rapid isolation of high-quality RNA and DNA in 20 minutes.
- Fast procedures and easy handling
- Highly efficient recovery of viral RNA and DNA
- Pure RNA and DNA ready for downstream applications
- No organic extraction or time-consuming alcohol precipitation

Procedure



Ordering information

Cat. No.	Product Name	Size
302-150	Ribospin vRD	50 preps
302-103	Ribospin vRD	300 preps

High quality viral RNA extraction for sensitive detection of SARS-CoV-2

Figure 1. Performance comparison test with other product

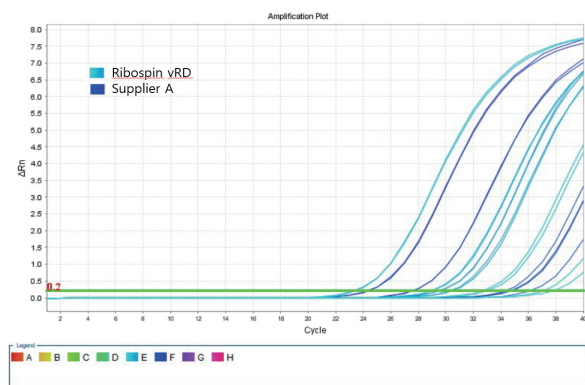
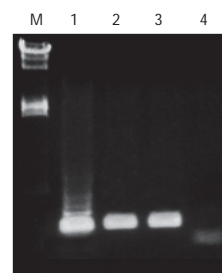


Figure 1. RdRp gene (SARS-CoV-2) were purified from 200 µl of positive clinical nasopharyngeal (NP) swab with VTM samples using Ribospin vRD kit and supplier A. RT-qPCR were then conducted. All 12 RdRp genes (SARS-CoV-2) extracted using Ribospin vRD are successfully detected and identified.

Amplification test of HSV-1 (Herpes simplex virus) DNA



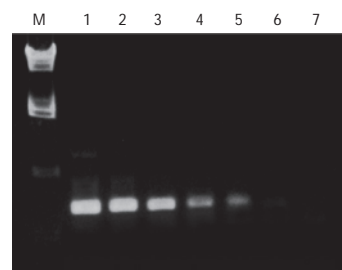
Total nucleic acid was extracted from cells infected by HSV-1 (DNA virus) and HSV-1 samples using Ribospin™ vRD. The DNA of HSV-1 was amplified by PCR and confirmed by electrophoresis.

M : Lambda-HindIII

Lane 1 : PCR of DNA from infected cell

Lane 2, 3 : PCR of DNA from HSV-1 sample

Lane 4 : Negative control



Total DNA was extracted from gradually diluted HSV-1 sample using Ribospin™ vRD. And then the DNA of HSV-1 was amplified by PCR and confirmed by electrophoresis.

M : Lambda-HindIII

Lane 1 : PCR of DNA extracted from 6×10^4 pfu HSV-1

Lane 2 : PCR of DNA extracted from 6×10^3 pfu HSV-1

Lane 3 : PCR of DNA extracted from 6×10^2 pfu HSV-1

Lane 4 : PCR of DNA extracted from 6×10^1 pfu HSV-1

Lane 5 : PCR of DNA extracted from 6 pfu HSV-1

Lane 6 : Negative control of a purification procedure

Lane 7 : Negative control