

MGIEasy Nucleic Acid Extraction Kit

Easy to use

- All the reagents prepacked into 96 well plate, the on-hand time is very short.

Fast

- Approximate 9 mins from sample to nucleic acid.

High efficiency

- The LOD of this kit for RT-PCR detection is 500 copies / mL.

Introduction

The kit is designed for extracting viral nucleic acid from throat swab samples with special buffer which make the TAT as short as 9 minutes, all the reagents prepacked into 96 well plate, compatible with MGISP-NE32 perfectly. the extracted product can be used for RT-PCR and Sequencing.



Performance

High efficiency

We extracted the COVID-19 pseudovirion, followed by RT-PCR, the result indicates our kit can efficiently and stably extract the viral nucleic acid as low as 500 copies/mL.

Compare to competitor

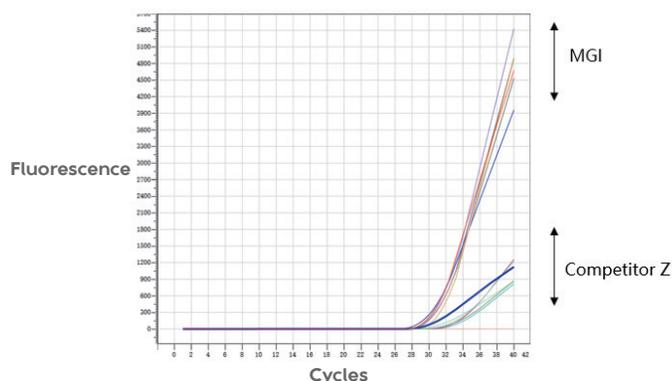
We extracted the Avian influenza virus using our kit and competitor Z kit respectively, followed by RT-PCR, the result indicates our kit are much more efficient and stable.

Table 1. RT-PCR result

Number	Ct value for 500 cp/mL COVID-19 pseudovirion
1	35.3
2	34.9
3	35.0
4	34.6
5	35.1
6	34.8
7	34.2
8	35.3
9	35.3
10	34.8
Mean	34.9
CV	0.94%

Table 2. RT-PCR result

Number	Ct value for MGI	Ct value for Competitor Z
1	31.8	38.0
2	32.2	38.7
3	32.2	Undetected
4	32.6	37.0
5	32.2	37.0
6	31.9	35.7
7	31.8	38.4
Mean	32.1	37.5
CV	0.90%	2.96%



Compare to our kit

We extracted the Avian influenza virus with different copies using this kit and MGI's another extraction kit (T-1728) which already has CE certification, followed by RT-PCR, the result indicates this kit has similar efficiency with T-1728.

Table 3. RT-PCR result

Number	Ct value for the T-1728		Ct value for the This kit	
	10 ⁵ copies	2500 copies	10 ⁵ copies	2500 copies
1	26.0	31.7	25.6	31.3
2	26.4	31.7	25.9	30.8
3	26.6	31.7	25.9	31.6
4	26.4	32.0	25.8	31.9
5	26.5	31.5	26.3	31.1
6	26.5	31.6	26.1	30.9
7	26.1	31.8	25.8	30.7
8	26.0	32.2	26.1	31.6
9	26.2	31.7	26.1	31.5
10	26.4	32.0	26.0	32.0
Mean	26.3	31.8	26.0	31.3
CV	0.83%	0.70%	0.81%	1.42%

Product Information

Name	MGIEasy Nucleic Acid Extraction Kit
Specification	32 RXN
Model	VDR03P-32
Storage temperature	0~8℃
Sample type	Throat swab
Input volume	200 μL
Elution volume	50 μL
Compatible instrument	MGISP-NE32
TAT	9 minutes approximately
Application	RT-PCR, Sequencing

Order information

Reagent

Name	Cat.No.	Certification
MGIEasy Nucleic Acid Extraction Kit	1000023938	RUO



Instrument

Name	Cat.No.	Certification
MGISP-NE32RS Automated Nucleic Acid Extractor	950-000020-00	RUO

