

# Nucleic Acid Extraction Kit

The Kit is designed for extracting viral nucleic acid from swab samples with special buffer which make the TAT as short as 15 minutes, all the reagents prepacked into 96 well plate, compatible with MGISP-NE384 perfectly. the extracted product can be used for RT-PCR and Sequencing.



### Easy to use

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



### Fast

Approximate 15 mins from sample to nucleic acid



### High efficiency

The LOD is 150 copies / mL with RT-PCR kit



### Super high throughput

Up to 14,000 samples per day with MGISP-NE384



## Performance

### ● High efficiency

We diluted and extracted the pseudovirion, followed by RT-PCR, the result indicates our kit can efficiently and stably extract the viral nucleic acid as low as 150 copies / mL

Table 1 RT-PCR result (Cutoffs≤38)

Sample ID	Ct value for 150 copies / mL	Sample ID	Ct value for 150 copies / mL	Sample ID	Ct value for 150 copies / mL
S1	36.52	S15	36.07	S28	34.94
S2	35.98	S16	35.47	S29	35.74
S3	35.51	S17	34.53	S30	34.53
S4	37.23	S18	35.43	S31	35.01
S5	36.74	S19	35.29	S32	35.45
S6	35.83	S20	35.97	S33	34.62
S7	35.42	S21	36.38	S34	35.4
S8	34.99	S22	35.34	S35	35.1
S9	35.96	S23	35.98	S36	34.69
S10	35.28	S24	35.09	S37	34.51
S11	36.14	S25	35.6	S38	36.49
S12	35.25	S26	34.85	S39	35.4
S13	34.61	S27	35.33	S40	35.24
S14	35.99				

- Compare to competitor

We extracted the pseudovirion using our kit and competitor Q kit respectively, followed by RT-PCR, the result indicates MGI's kit has higher efficiency.

Table 2 RT-PCR result (Cutoff≤38)

Sample ID	Ct value for MGI	Ct value for Competitor Q
S1	33.09	34
S2	32.93	33.9
S3	33.02	33.97
S4	32.64	33.72
S5	33.01	35.12
S6	33.54	33.84
S7	33.5	33.36
S8	32.91	33.66
Mean Ct value	33.08	33.95



## Product info

Name	Nucleic Acid Extraction Kit
Specification	96 Preps
Model	VDR03P-96
Storage temperature	2-8 °C
Sample type	Swab
Input volume	200 µL
Elution volume	50 µL
TAT	15 minutes approximately



## Order info

### Reagent

Name	Cat.No.	Certification
Nucleic Acid Extraction Kit	1000024108	CE-IVD

### Instrument

Name	Cat.No.	Certification
MGISP-NE384 Automated Nucleic Acid Extractor	900-000359-00	CE-IVD

