

GB LabPrep DNA/RNA Viral Nucleic Kit

For isolation of Covid-19 viral DNA/RNA viral nucleic acid from cell-free fluid including serum, plasma, body fluid and cell culture supernatant, and from transport medium of swabs.



GB LabPrep DNA/RNA Viral Nucleic Kit is optimized to purify nucleic acids from the widest range of sample matrices of any sample extraction kit on the market.

FEATURE

- For manual extraction of bodily fluids, serum, plasma, transport medium of oropharyngeal or nasopharyngeal swabs
- Carrier RNA provided, for low viral specimen
- High Purity: Complete removal of contaminants and inhibitors for reliable downstream applications
- High Speed: Rapid purification of high-quality viral DNA/ RNA within 30 minutes
- Compatible Column: spin and vacuum/ automatic

SPECIFICATION

	Spin column based (silica membrane/ chaotropic salt)
	Nonenzymatic lysis
	Should not require heating step
Sample input	up to 140 µl
Elution volume	20 ~50 µl
	DNA/RNA is ready for Real Time PCR
Length of DNA/ RNA	> 200 bp
Column Binding capacity	60 µg RNA, 30 µg DNA

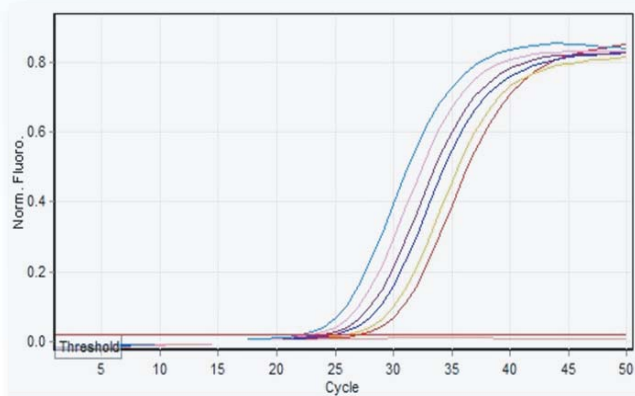
2020.Sep



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PERFORMANCE



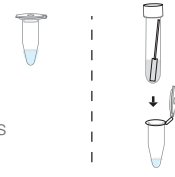
The COVID-19 positive extraction control (PEC) RNA was spiked into VNE lysis buffer in dose-escalation manner. The 250 copy/ml of COVID-19 N gene RNA template was defined as 1x concentration; the extraction was spiked COVID-19 N gene RNA with 1x, 2x, 4x, 8x, 16x, and 32x (from 250 copy/ml to 8,000 copy/ml) with no template control (NTC). The extraction process was follow the protocol of FavorPrep™ Viral DNA/RNA Mini Kit.

After extraction was complete, the eluted nucleic acid products were verified by real-time qPCR method. The viral RNA was eluted using 40 µl of RNase-free water, than 6 µl of eluted product was applied for Real-time qPCR.

PROCEDURE

- Sample type

(1) serum, plasma, body fluid or cell medium



(2) transport medium of swabs

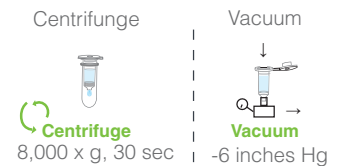
- Sample lysis (**VNE Buffer**)



- optimization of binding condition (**adding ethanol**)



- Bind DNA/ RNA (VNE Column)



- Wash column (**Wash Buffer 1**) (**Wash Buffer 2**) x 2



- Dry column



- Elute DNA/ RNA



ORDERING INFORMATION

Catalog No.

4SDO0023 (100 preps)

Description

GB LabPrep DNA/RNA Viral Nucleic Kit

Package

100 tests

