

Phoenix Virus NAT® Viral Nucleic Acid Buffer

For professional use in laboratories only.

For in vitro diagnostic use only.

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Phoenix Virus NAT® - fast extraction for direct RT-qPCR

1. Product Content, Storage conditions and Shelf Life

Product	Size	Tests	Cat.No.
Phoenix Virus NAT® Viral Nucleic Acid Buffer	1 x 7.5 ml	100	PCCSKU16051

Shelf life at 2-8°C: 6 months

2. Intended Use

Phoenix Virus NAT® is a fast, simple and inexpensive method for preparing one to hundreds of samples for RT-PCR amplification. It allows viral nucleic acid preparation from nasopharyngeal aspirate and lavage, bronchoalveolar lavage, saliva, nasopharyngeal swab, oropharyngeal swab, and sputum samples in VTM or UTM. Highly denaturing transport media containing GTC (e.g., Phoenix Protect, Zymo DNA/RNA Shield etc) are not compatible for the fast extraction. After incubation of 5 minutes at room temperature the sample can be added directly to the PCR mix. The use of PhoenixDx® SARS-CoV-2 detection kits and PhoenixDx® SARS-CoV-2 Mutant Screen kits in combination with Phoenix Virus NAT® is recommended.

3. Storage of clinical specimens

Clinical specimens diluted in Phoenix Virus NAT® can be stored at 2-8°C for up to 5 days.

4. Materials Required

1. 10-100 µl micropipette and compatible tips (DNase and RNase free)
2. 1.5- or 2-ml microcentrifuge tubes
3. Powder-free nitrile disposable gloves

5. Application Protocol

1. Take 75 µl of Phoenix Virus NAT® to a clean microcentrifuge tube.
2. Add 25 µl of VTM / UTM sample and mix by pipetting 4-5 times.
3. Incubate at room temperature for 5 minutes.
4. Sample can be used directly for PCR reaction or stored at 2-8°C.

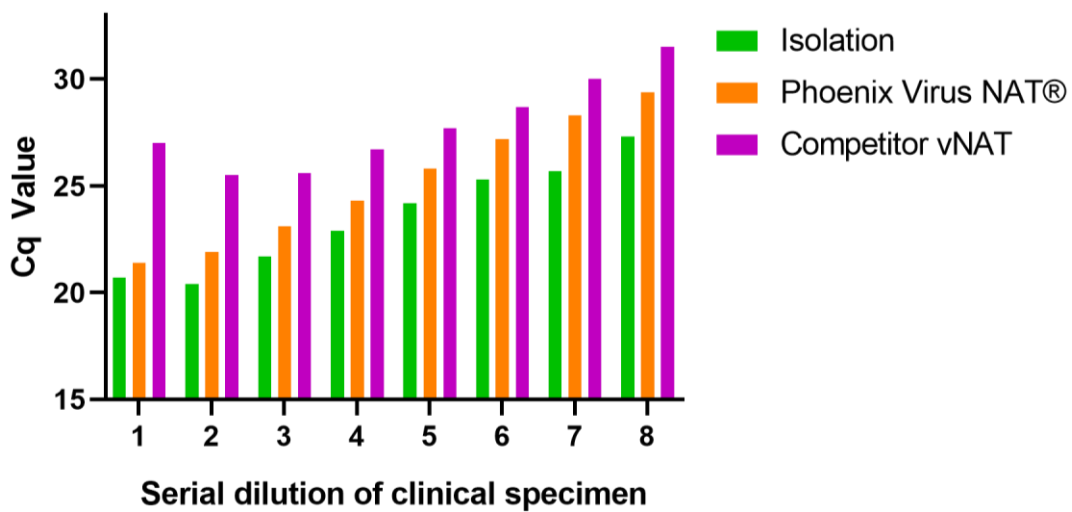
Example Setup for PhoenixDx® SARS-CoV-2 P681R Multiplex (Cat.No. PCCSKU15284) & PhoenixDx® SARS-CoV-2 N501Y Multiplex (Cat.No. PCCSKU15275):

Components (20 µl PCR reaction)	Volume
20X RT Enzyme Mix	1 µl
5X MTM Buffer	4 µl
P681R 4Plex Assay Mix or N501Y 3Plex Assay Mix	1 µl
Nuclease-free water	9 µl
Sample in Phoenix Virus NAT®	5 µl

6. Clinical Performance

Samples	Magnetic Bead Isolation		Phoenix Virus NAT® treatment		Competitor vNAT treatment	
	Positive	Negative	Positive	Negative	Positive	Negative
VTM / UTM (positive = 43)	43	0	43	0	37	6
Clinical sensitivity	100 %		100 %		87,7 %	
VTM / UTM (negative = 57)	0	57	0	57	0	57
Clinical specificity	100 %		100 %		100 %	

7. Method comparison



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2-8°C



our web shop: www.procomcure.com

or E-Mail: office@procomcure.com

Phoenix Virus NAT® is available as **bulk product** for assembling companies or users with substantial reaction numbers. If you are interested in bulk solutions, contact us at office@procomcure.com