

# vamPure® Viral Nucleic Acid Extraction Kit

## Fast and Efficient Magnetic Bead-Based Protocol

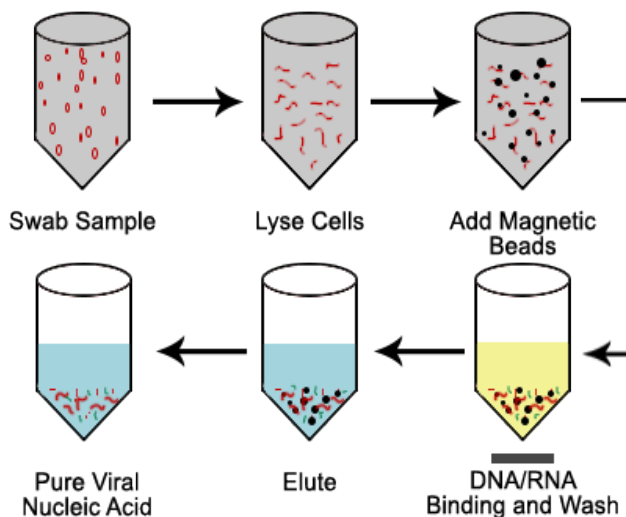
### Liquid Biopsy Product Series: vamPure Viral Nucleic Acid Extraction Kit

BioChain's vamPure Viral Nucleic Acid Extraction kit allows for fast and efficient total nucleic acid extraction from human swab samples. It is ideal for extraction and subsequent detection of various viral species, including the novel coronavirus responsible for COVID-19 disease. The magnetic bead-based extraction protocol is suitable for both manual and automation using open systems. Nucleic acids extracted using this kit are suitable for PCR, RT-PCR, and other downstream applications.

### Advantages & Features

- Ideal for COVID-19 detection
- High nucleic acid recovery and quality
- Short and scalable protocol
- Cost-effective extractions
- Automatable on open systems

### Sample Work Flow



### Applications:

- Viral detection (e.g. COVID-19)
- PCR, qPCR, and RT-PCR gene amplification



## vamPure Viral is Ideal for COVID-19 Detection

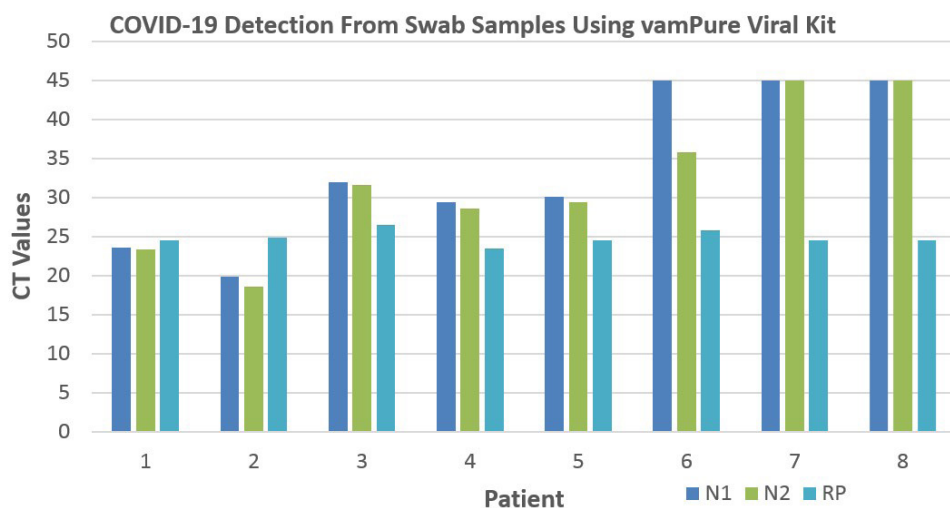


Fig. 1: 200 µl of human swab sample from 8 test patients were extracted using BioChain’s vamPure Viral Nucleic Acid Extraction kit. RT-PCR was then performed on the elution from each subject to target either the nucleocapsid gene (N1 and N2 regions) of the novel 2019 coronavirus, or human RNase P as a control. The results show that 2 of the donors tested negative for the coronavirus, but the other 6 subjects had detectable levels of the viral nucleocapsid gene.

## vamPure Viral Sensitivity

Patient	Estimated Viral Copies per µl
1	9.32E+03
2	1.78E+05
3	25.87
4	186.42
5	107.56
6	2.19
7	0
8	0

Table 1. BioChain’s vamPure Viral Nucleic Acid Extraction kit provides high sensitivity for viral detection. The estimated viral copies shown here correlate with the results in Figure 1 above. As low as 2 viral copies of the novel coronavirus per µl were detected in one test subject. This sensitivity is important to distinguish between a negative test result and one where the donor has low viral loads and may not exhibit symptoms.

Catalog No.	Product	Unit
K5011820	vamPure® Viral Nucleic Acid Extraction Kit	100 (200 µl) preps 10 (2 mL) preps
<b>Related Products</b>		
K5011720	vamPure® Blood Nucleic Acid Extraction Kit	100 (200 µl) preps 10 (2 mL) preps
K5011610	cfPure® Cell Free DNA Extraction Kit	100 (1 mL) preps 10 (10 mL) preps
K5011625MA	cfPure® MAX Cell Free DNA Extraction Kit	50 (5 mL) preps 25 (10 mL) preps

Please inquire about a trial kit and bulk pricing.