

Mag-Bind® Viral DNA/RNA 96 Kit

High throughput total nucleic acid isolation from bodily fluids



Bead Based

High throughput purification



Quality

High quality DNA and RNA suitable for demanding downstream applications



Automatable

Adaptable on most open-ended liquid handlers

Cost-Effective

30% less than the competition on average

Mag-Bind® Viral DNA/RNA 96 Kit is designed for the rapid and reliable isolation of viral RNA and viral DNA from whole blood, serum, plasma, saliva, and other bodily fluids. The Mag-Bind® magnetic bead technology enables purification of high quality nucleic acids that are free of proteins, nucleases, and other impurities. In addition to being easily adapted to most automated systems, this procedure can also be scaled up or down depending on the amount of starting sample. The purified nucleic acids are ready for direct use in downstream applications, such as amplification or other enzymatic reactions.

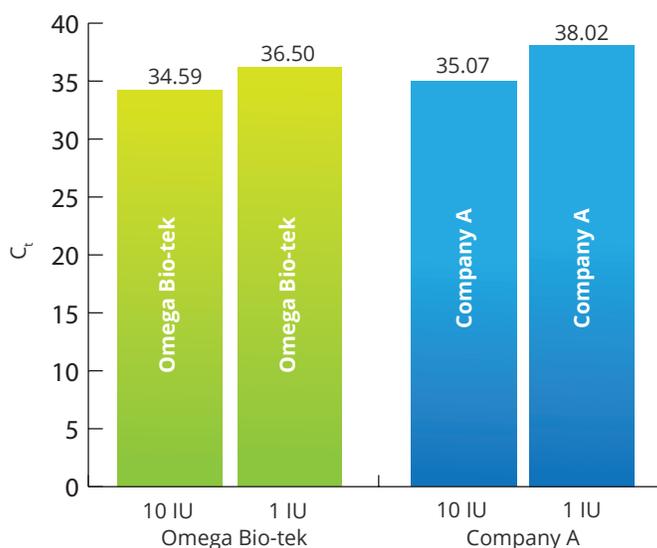


Figure 1. HBV virus (in quantities of 10 and 1 infectious unit[s]) was spiked into 200 μ L of human serum. Viral nucleic acid was isolated with Omega Bio-tek's Mag-Bind® Viral DNA/RNA 96 Kit and a comparable kit from Company A according to manufacturer's recommended protocols. 5 μ L of template was used for a SYBR® Green labeled qPCR reaction, which was replicated 4 times. The resulting mean C_t values are shown in the above figure.

Table 1. Nucleic acid was isolated from 200 μ L of human whole blood with Omega Bio-tek's Mag-Bind® Viral DNA/RNA 96 Kit and a kit from Company A using the manufacturer's recommended protocols. The extractions were eluted in 100 μ L. 3 concentrations of template were used as templates in a SYBR® Green labeled qPCR reaction. Each reaction was performed in quadruplicate and the mean C_t value is depicted in the above figure.

Company	Template (μ L)	C_t
Omega Bio-tek	3	23.37
	0.3	26.72
	0.03	29.7
Company A	3	23.36
	0.3	26.73
	0.03	29.7



innovations in nucleic acid isolation

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Table 2. Some of the viruses* detected using our viral kits.

Influenza A	Porcine circovirus type 2 (PCV2)
Influenza B	Arboviruses
West Nile virus	Dengue virus
Middle East Respiratory Syndrome Coronavirus (MERS-CoV)	GB virus C
Zika virus (ZIKAV)	Bovine Viral Diarrhea Virus (BVDV)
SIV	Sheep pox virus
HIV	Murine norovirus 1
Influenza A (H1N1)	Canine distemper virus
Hepatitis A virus types 1 and 3	Rabies virus
Hepatitis B virus	Rotavirus
Hepatitis E	Coxsackievirus B3
Infectious Bronchitis virus	Coxsackievirus A6
Porcine reproductive and respiratory syndrome Virus (PRRSV)	Avian leukosis virus subgroup J
Insect-specific flaviviruses, mononegaviruses, and totiviruses	Avian Encephalomyelitis Virus
orf virus (ORFV)	Crimean-Congo hemorrhagic fever virus
Marek's disease virus	

* References available upon request

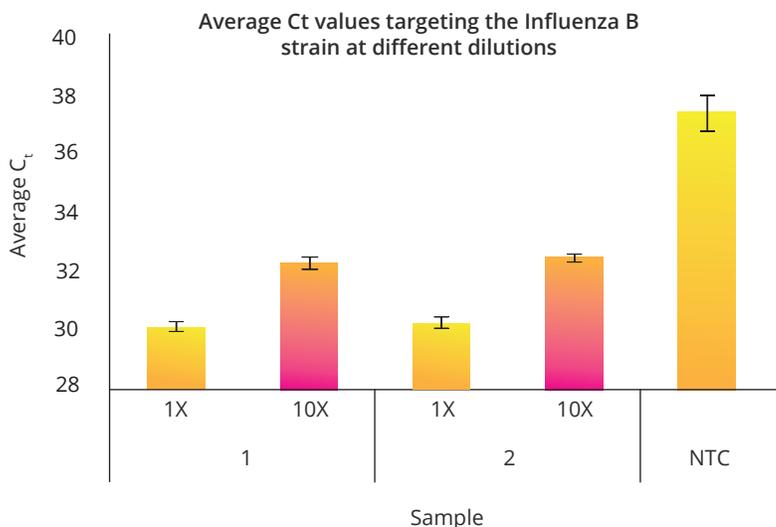


Figure 2. 50 µL of ZeptoMetrix's NATtrol Influenza A/B Positive Control standard was spiked into 150 µL of human serum and viral nucleic acids were extracted using Omega Bio-tek's Mag-Bind® Viral DNA/RNA 96 Kit. Average Ct values obtained after amplification using Influenza B primers are shown above. The results indicate positive detection of Influenza B in both undiluted and 10-fold diluted purified samples.

Product Description	Preps	Cat No.
Mag-Bind® Viral DNA/RNA 96 Kit	1x96	M6246-01
	4x96	M6246-02
	12x96	M6246-03

For free samples of any of our kits, visit www.omegabiotek.com