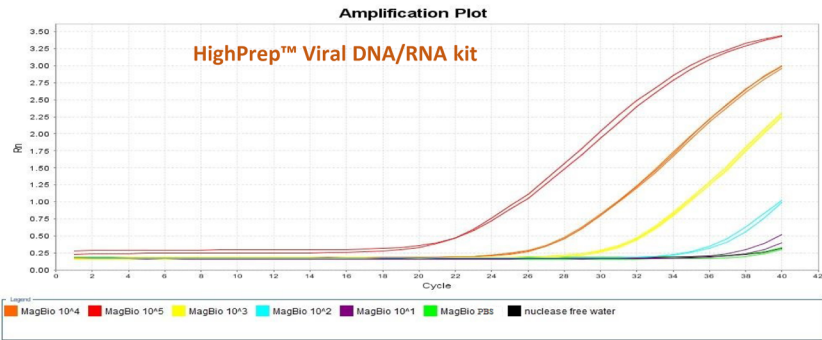
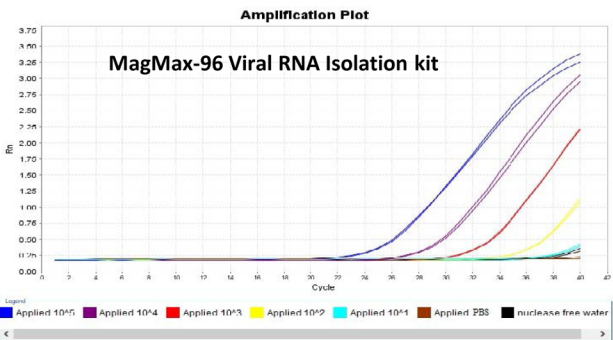
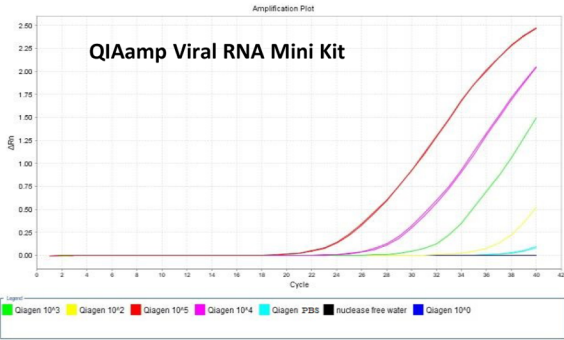
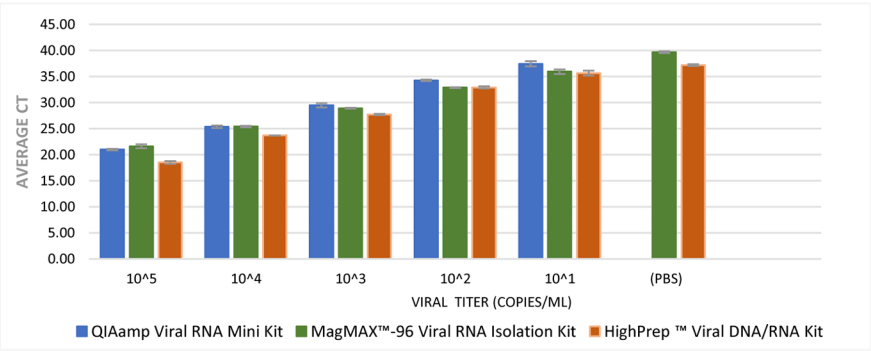


Viral RNA Extraction Kit - How Do We Fare Against Key Competitors?

Viral Titer (Copies/mL)	QIAamp Viral RNA Mini Kit	MagMAX™-96 Viral RNA Isolation Kit	HighPrep™ Viral DNA/RNA Kit
		(Average Ct values)**	
10 ⁵	20.98	21.60	18.51
10 ⁴	25.36	25.38	23.68
10 ³	29.49	28.90	27.71
10 ²	34.25	32.88	32.91
10 ¹	37.45	35.93	35.66
(PBS)	undetermined	39.67	37.19

** Each data point is the average of 6 replicates between two operators with 3 replicates per operator.



Concluding Remark:

MagBio’s HighPrep™ Viral DNA/RNA Kit is more efficient at high viral titer (Ct=18.51) and equally sensitive** at low viral titer (Ct=35.66) when compared to the MagMax-96 Viral RNA Isolation Kit & QiAmp Viral RNA Mini Kit.**
** the kits efficiency and sensitivity may vary with the type of viral collection media.

Background:
-Human Coronavirus 229E culture was diluted to 10⁵,10⁴, 10³,10², and 10¹ copies/mL with PBS containing background microflora from nasal swabs.
-200 uL of each spiked dilution was extracted according to MagBio’s HighPrep™ Viral RNA/DNA extraction kit protocol and competitors kits protocols.
-Amplification of RNA was performed using Power SYBR Green RNA-to-CT 1 Step Kit (Applied Biosystems) -A One-step RT PCR Kit together with PanCov-03 primers.
-One-step RT PCR was performed on 7500 Real Time PCR system.
The kits sensitivity may vary with the type of viral collection media.
Each data point is the average of 6 replicates between two operators with 3 replicates per operator.