

Enabling High Sensitivity COVID-19 Molecular Assays

with HighPrep™ Viral RNA/DNA Kit

HighPrep™ Viral RNA/DNA Kit can detect as low as 3.3 copies/mL of Human Coronavirus 229E

Background:

Limit of Detection: Human Coronavirus 229E culture was diluted to $10^5, 10^4, 10^3, 10^2$, and 10^1 copies/mL

Sensitivity: Human Coronavirus 229E culture was diluted from 10^1 copies/mL to 5copies/mL; **3.3copies/mL**; 2.5, and 2copies/mL

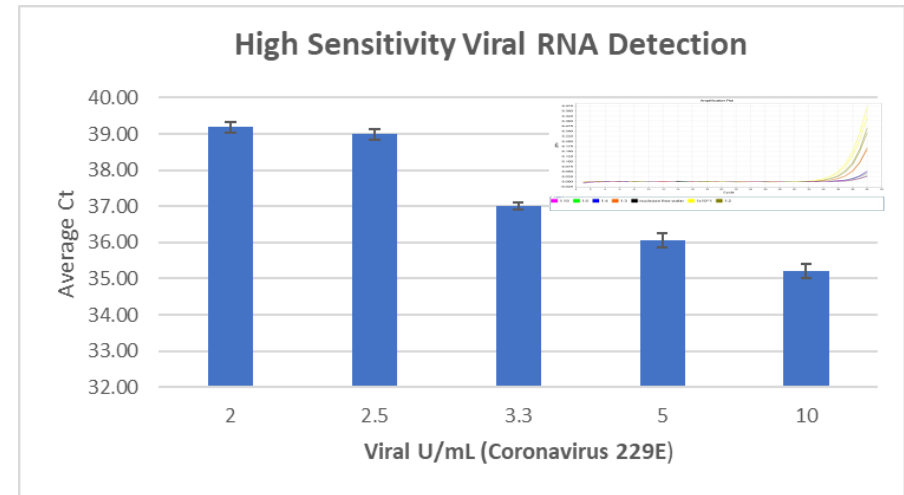
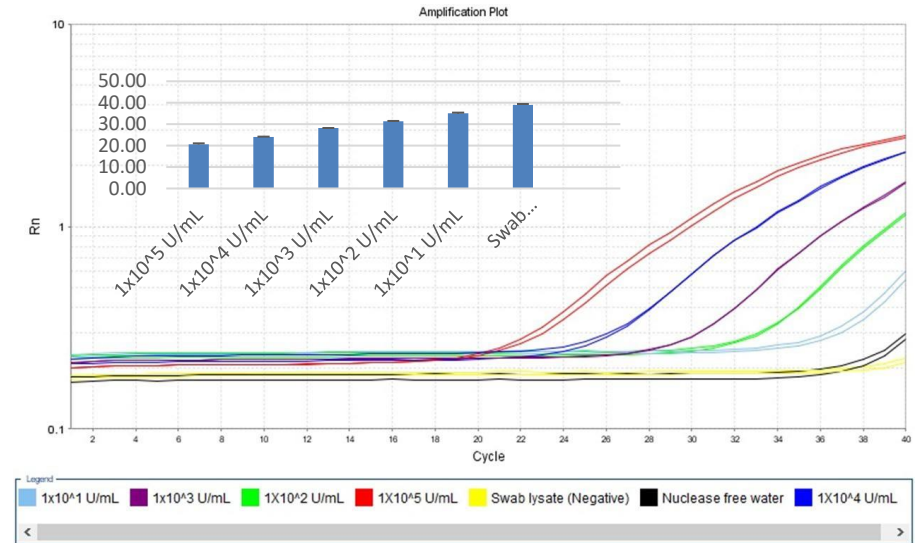
- All Coronavirus 229E culture dilutions were added to lswab media** containing background microflora (A single swab with iSWAB-Microbiome from Mawi DNA Technologies).

- 200 uL of each spiked dilution was extracted using MagBio's HighPrep™ Viral RNA/DNA extraction kit protocol.

- Power SYBR Green RNA-to-CT 1 Step Kit (Applied Biosystems)- a one-step RT PCR Kit together with PanCov primers.

- One-step RT PCR was performed on 7500 Real Time PCR system.

** the kit sensitivity may vary with the type of viral collection media.



Lean more <https://www.magbiogenomics.com/highpreptm-viral-dna-rna-kit.html>