



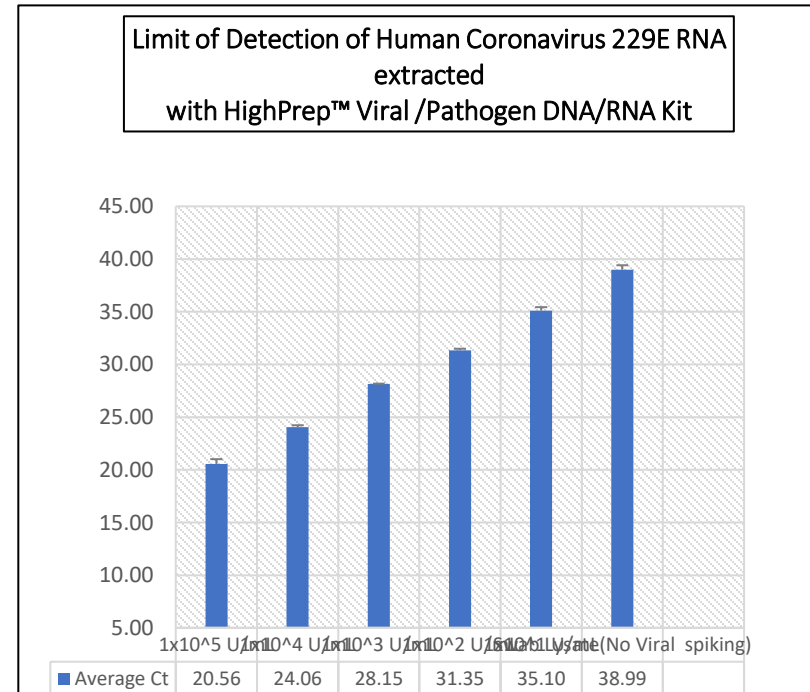
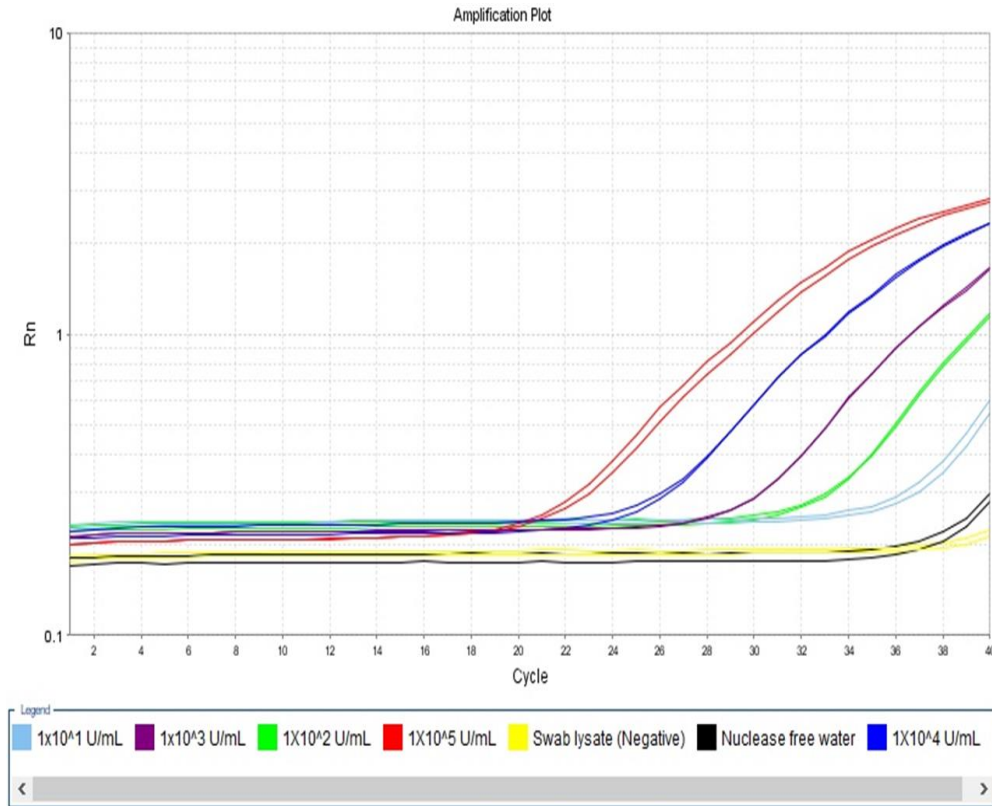
Sensitivity of **Human Coronavirus RNA** Isolation from various **Viral Transport Media** Is evaluated using **HighPrep™ Viral/Pathogen DNA/RNA Kit**



Main Viral Transport Media Tested

- 1. Mawi ISWAB MICROBIOME**
- 2. PrimeStore™ MTM Molecular Transport Media**
- 3. Spectrum DNA Saliva Collection Device**
- 4. ThinPrep Media (methanol Based)**
- 5. Phosphate Buffered Saline (PBS) used as it was used the kit optimization**

Sensitivity of Viral RNA Isolation in **Mawi ISWAB MICROBIOME** using HighPrep™ Viral/Pathogen DNA/RNA Kit

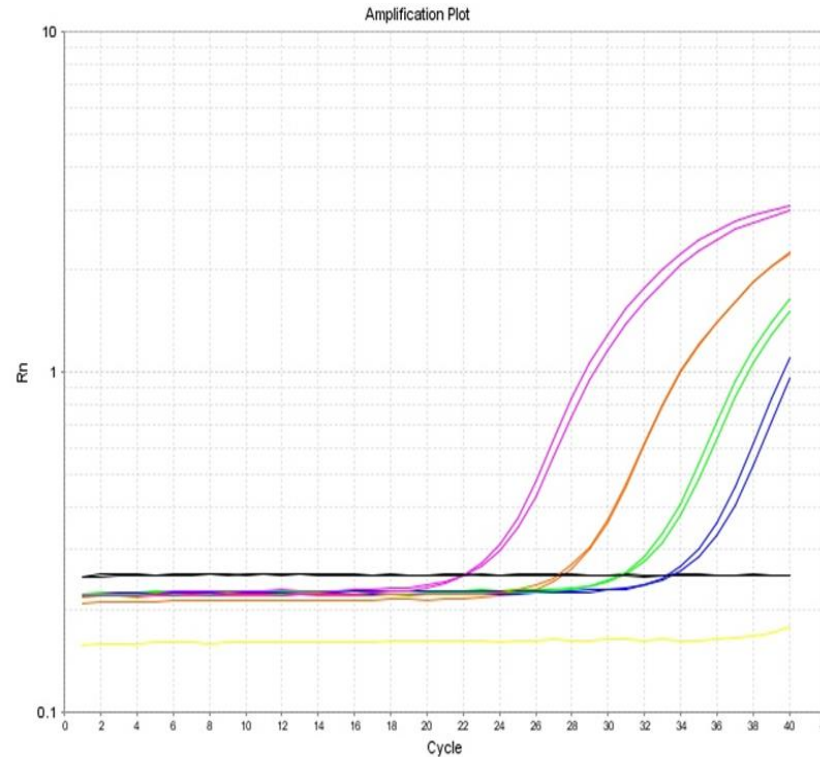
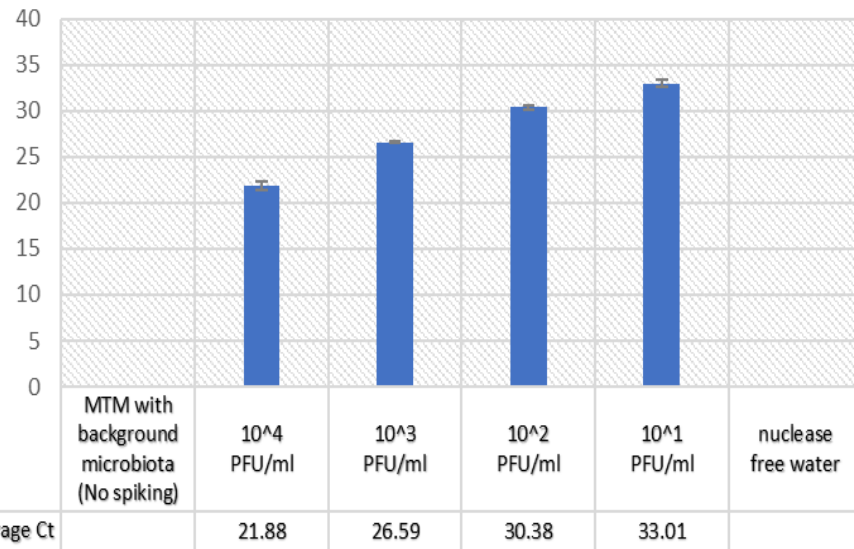


Human Coronavirus RNA was detectable at viral dilution of 1x10¹ U/mL. HighPrep™ Viral DNA/RNA kit has high sensitivity at very low viral load.

When HighPrep™ Viral DNA/RNA Kit was paired with **Mawi ISWAB MICROBIOME** sample collection device, high quality RNA was obtained as shown by the amplification plot.

Sensitivity of Viral RNA Isolation in PrimeStore™ MTM Molecular Transport Media using HighPrep™ Viral/Pathogen DNA/RNA Kit

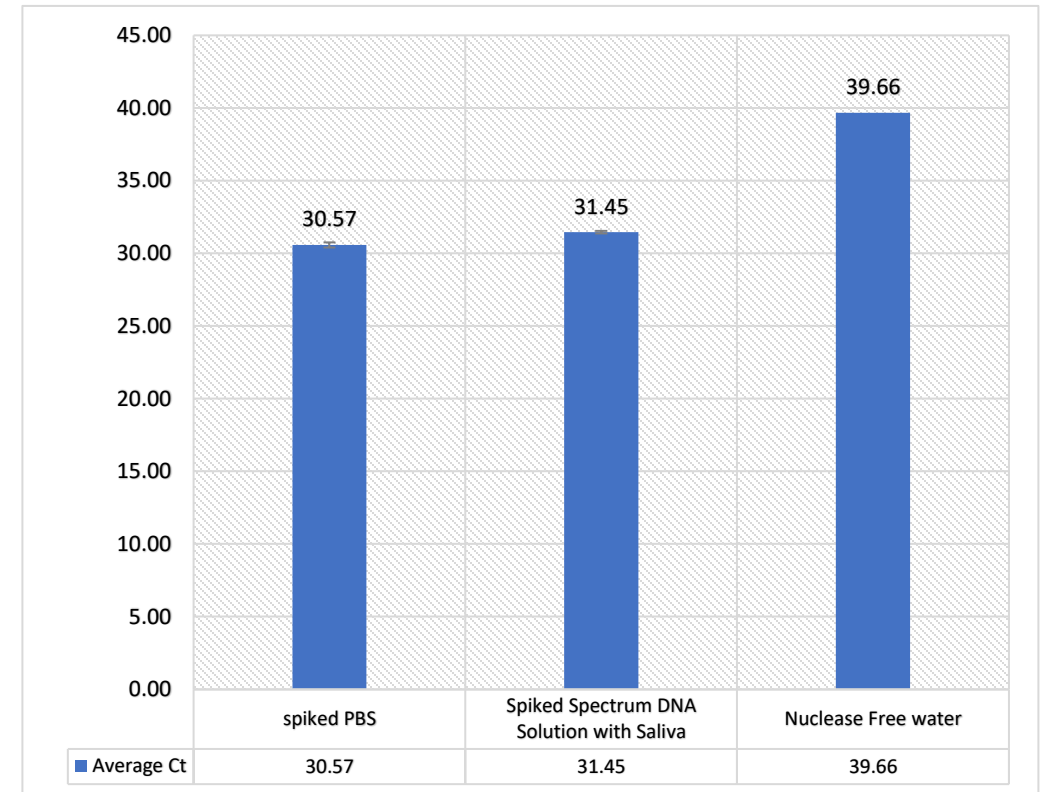
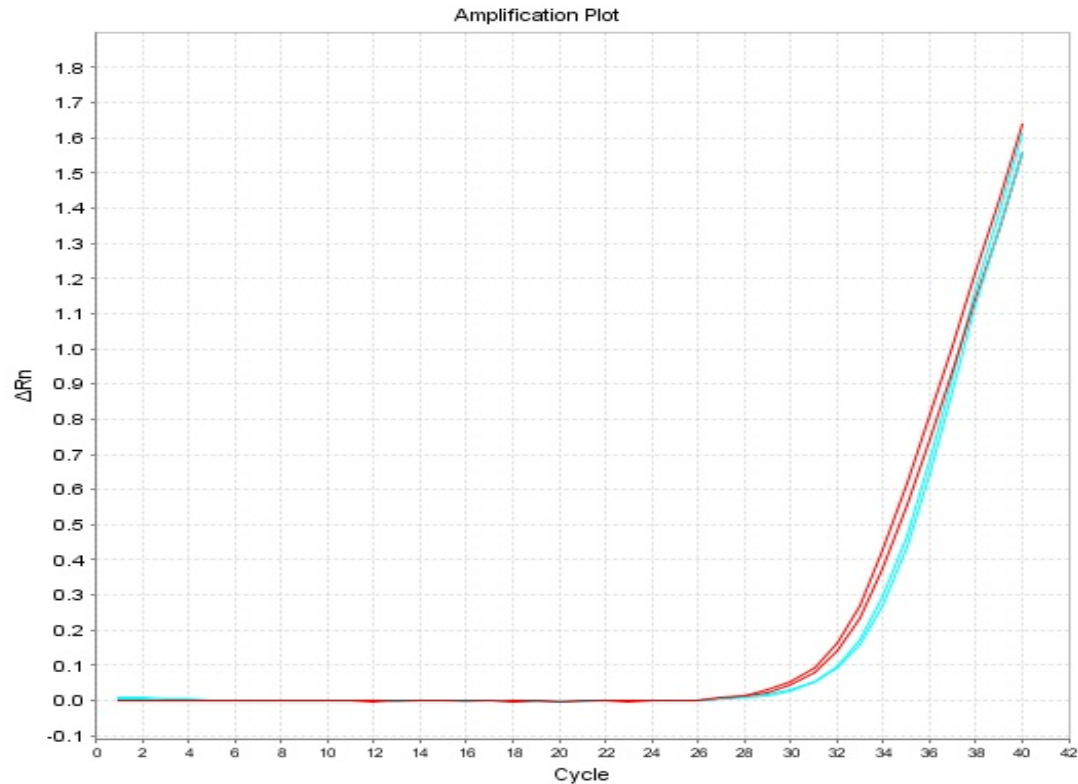
Limit of Detection of Human coronavirus strain 229E RNA Extracted by HighPrep Viral DNA/RNA kit from MTM swab lysate



MagBio's HighPrep™ Viral/Pathogen DNA/RNA kit is compatible with PrimeStore™ MTM Molecular Transport Media. The RNA extracts from the samples in PrimeStore™ MTM Molecular Transport media amplified well, and no inhibitors were detected

The combination MagBio's HighPrep™ Viral DNA/RNA kit and PrimeStore™ MTM Molecular Transport media shows high sensitivity in detection of Human coronavirus RNA.

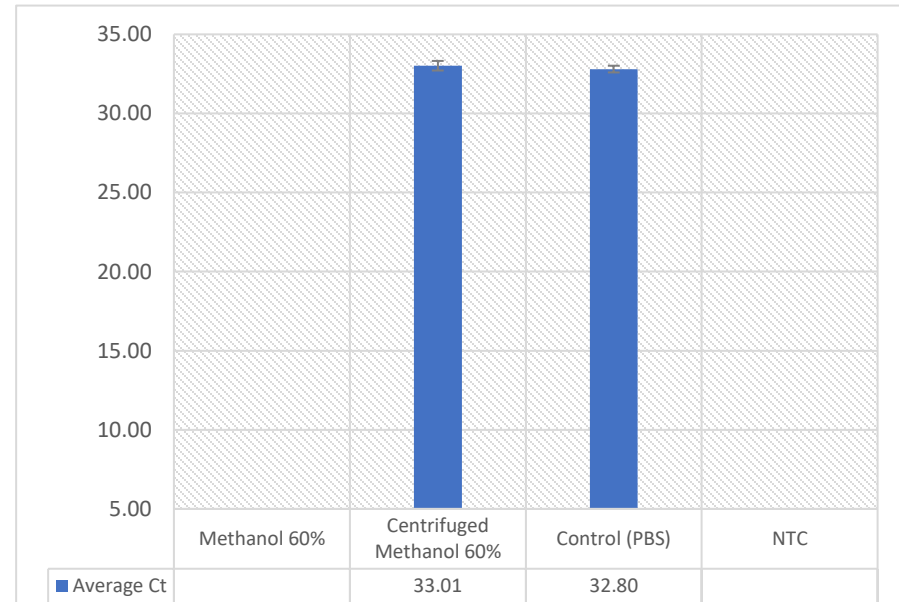
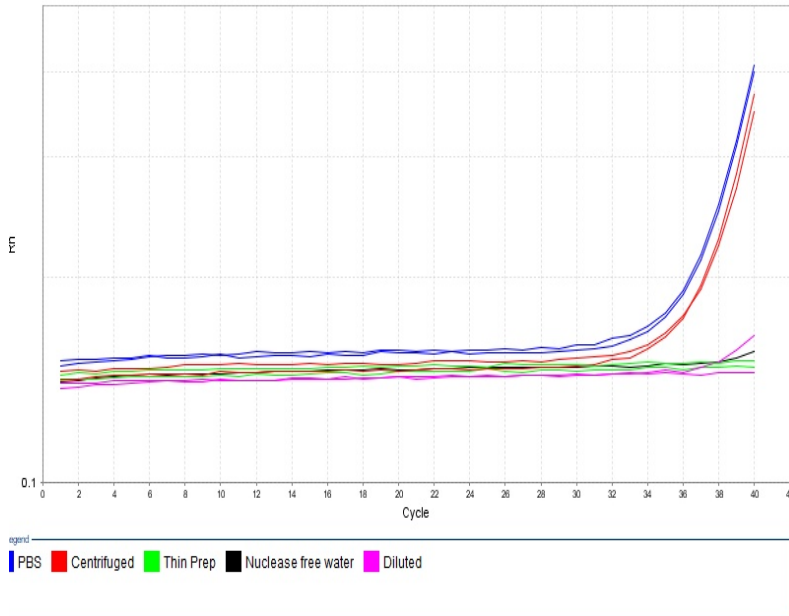
Sensitivity of Viral RNA Isolation in **Spectrum DNA Saliva Collection Device** using HighPrep™ Viral/Pathogen DNA/RNA Kit



The combination MagBio's HighPrep™ Viral DNA/RNA kit and **Spectrum DNA Saliva Collection Device** shows high sensitivity in detection of Human coronavirus RNA.

Sensitivity of Viral RNA Isolation in ThinPrep Media (Methanol Based Media) using HighPrep™ Viral/Pathogen DNA/RNA Kit

Amplification Plot



- PBS and 60% Methanol based media were spiked with Human Coronavirus 229E at a final concentration of 1×10^2 U/mL.
- 200 uL of spiked PBS was extracted with HighPrep Viral DNA/RNA kit following the protocol and this was designated as the experimental control **CONTROL**.
- 200ul of spiked 60% Methanol media was centrifuged at 12000g for 10 minutes and the supernatant was discarded (through decanting) and 200ul of PBS was added and the HighPrep Viral DNA/RNA protocol was followed as it is **CENTRIFUGED METHANOL 60%**.
- Another 200ul of spiked 60% Methanol based media sample was extracted with HighPrep Viral DNA/RNA kit protocol without centrifugation **METHANOL 60%**.

The combination MagBio's HighPrep™ Viral/Pathogen DNA/RNA kit and ThinPrep Media shows high sensitivity in detection of Human coronavirus RNA.

CONCLUSIONS

- **HighPrep™ Viral/Pathogen DNA/RNA Kit** can efficiently extract Human Coronavirus RNA from most of the viral transport media used in COVID-19 detection workflows.
- **HighPrep™ Viral/Pathogen DNA/RNA** represents a more versatile extraction kit for COVID-19 sample processing laboratories.
- **HighPrep™ Viral/Pathogen DNA/RNA** shows high sensitivity and efficiency regardless of the viral transport Media

Efficient, Sensitive & Versatile