



# MagBio™ Genomics Inc.

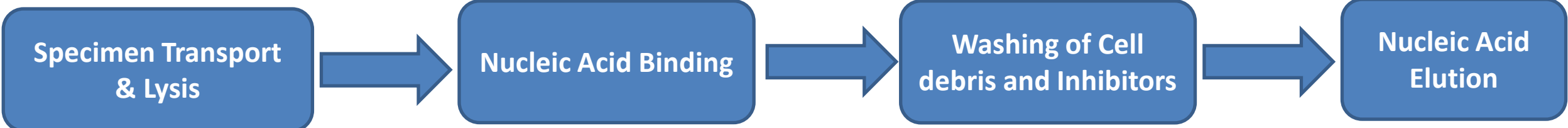
## MagBio™ CTL Medium

**Direct Replacement of**

**Panther Fusion™ Specimen Lysis Tubes /  
Panther Fusion Extraction Reagent**

# WORKFLOW - CTL Media OR Panther Fusion Tubes

---

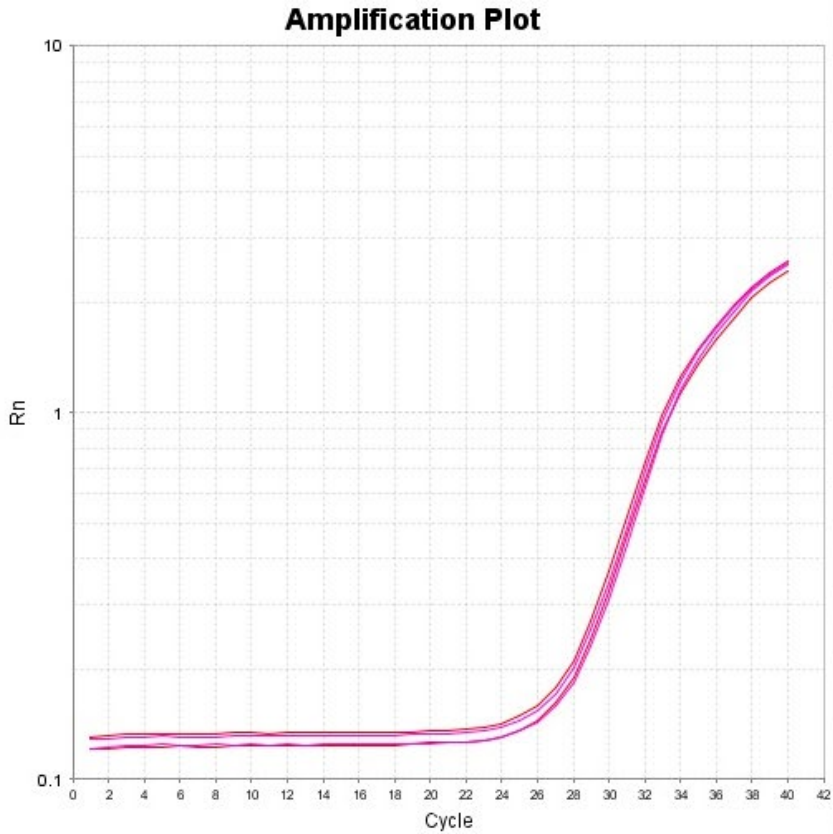
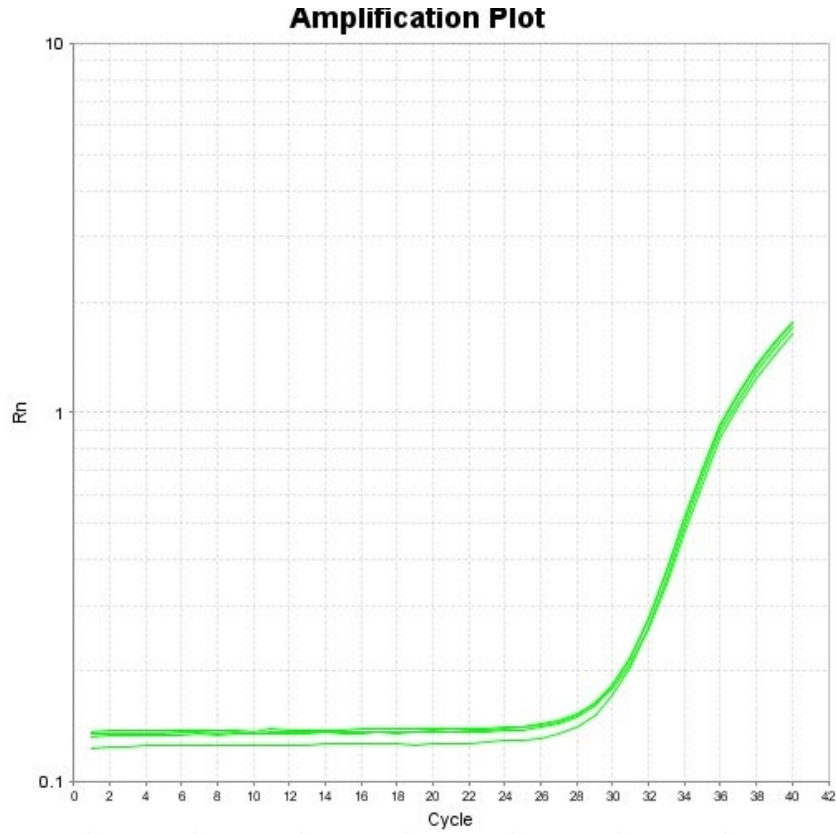


# Spiking Study: Human Coronavirus 229E

---

- ❑ Human Coronavirus 229E culture was diluted to  $10^2$  PFU/mL in PBS containing background nasal microflora.
- ❑ 500 uL of the  $10^2$  PFU/mL viral dilution was transferred into 0.71mL of CTL media or Panther Fusion™ Specimen Lysis Tubes. 360 µl of the mixture was used for RNA extraction. The nucleic acid was subsequently eluted into 30 µl of nuclease free water and amplified.
- ❑ Power SYBR Green RNA-to-CT 1 Step Kit (Applied Biosystems)- a one-step RT PCR Kit together with PanCov primers were used for the detection of Human coronavirus 229E. **3uL** of the RNA extracted was used for real time PCR.
- ❑ One-step RT PCR was performed on 7500 Real Time PCR system

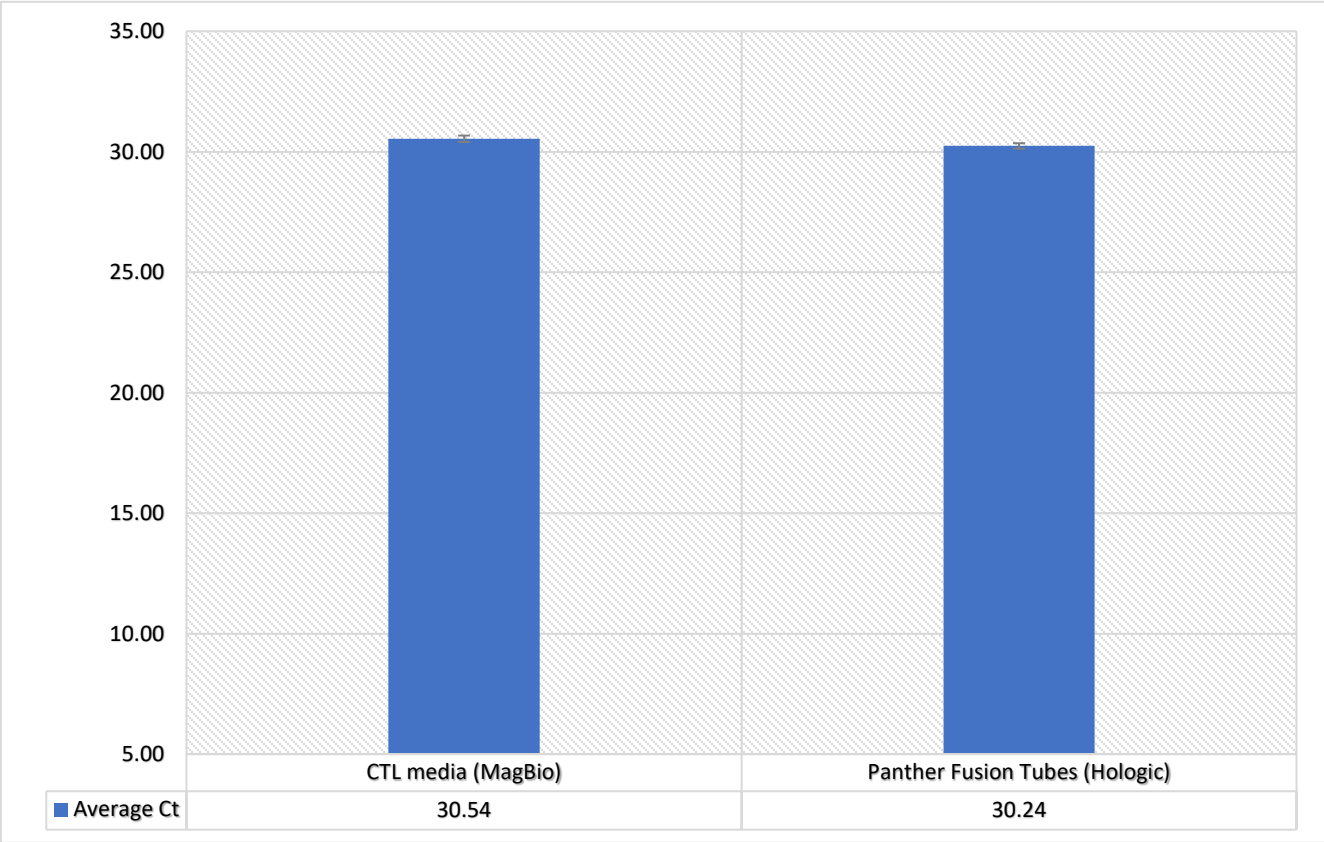
# Amplification of Coronavirus 229E Captured from CTL Media and Panther Fusion™ Specimen Lysis Tubes



	MagBio CTL Media
	Hologic Panther Fusion Tubes

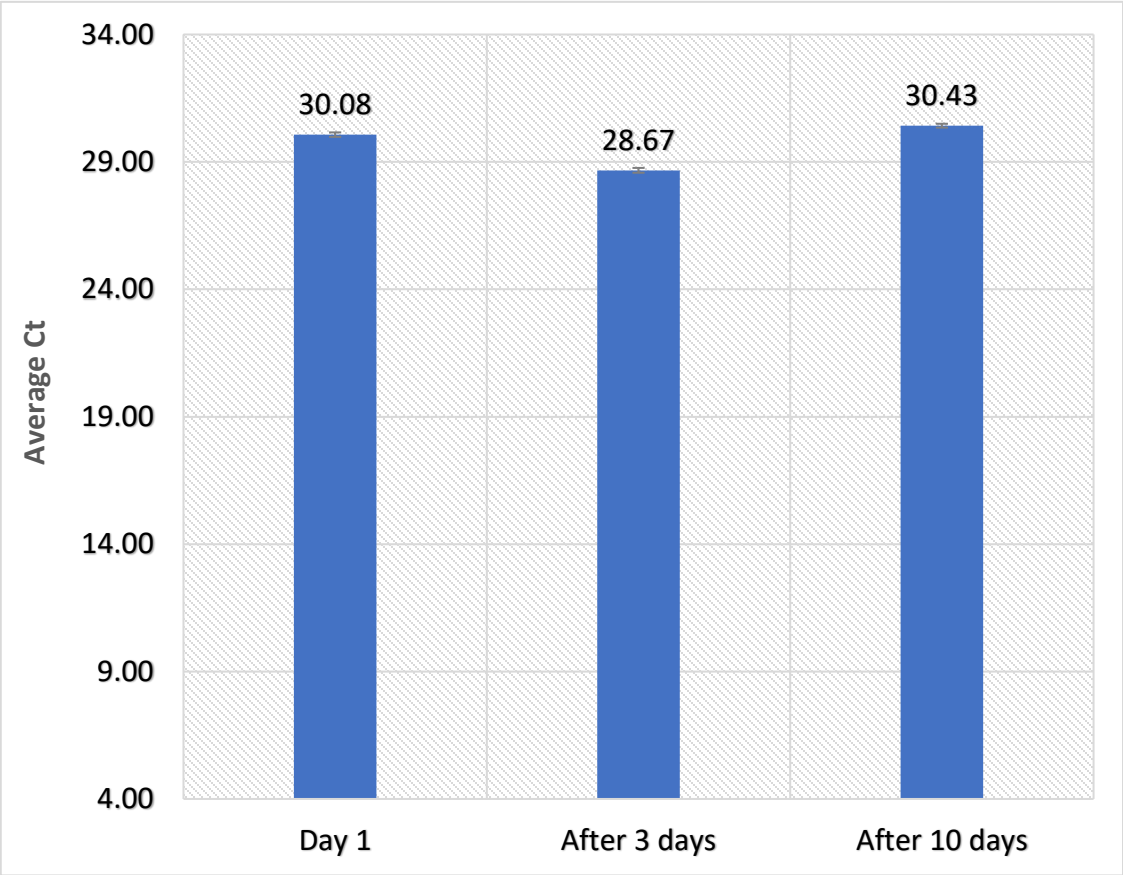
Human Coronavirus 229E RNA was successfully amplified after magnetic bead capture from CTL media and Panther Fusion™ Specimen Lysis Tubes.

# Detection of Human Coronavirus 229E from CTL media and Panther Fusion™ Specimen Lysis Tubes



Both CTL media and Panther Fusion Tubes performed the same as they both have a Ct of around 30.

# Stability of Human Coronavirus 229E in CTL Medium at Room Temperature



Viral RNA was stable for 10 days in CTL Medium.

# Summary

---

- The Viral RNA from Human Coronavirus 229E was efficiently purified from CTL media and the Ct at **10<sup>2</sup> PFU/mL** was around **30** and this Ct is comparable to that of Panther Fusion™ Specimen Lysis Tubes.
- RNA is stable at room temperature in CTL media for about **10 days**.
- CTL media is a **direct** replacement of **Panther Fusion™ Specimen Lysis Tubes / Panther Fusion Extraction Reagent**