DATA PROOF POINT SALIVA vs. SWAB

SDNA -1000 SALIVA COLLECTION DEVICE



RUCDR Infinite Biologics COVID-19 QPCR Testing

SPECTRUM SDNA -1000 SALIVA COLLECTION DEVICE Swab vs. Saliva Biosamples SDNA -1000



STUDY DESIGN

- 50 Subjects with <u>KNOWN</u> COVID-19 status (Positive and Negative)
- Independently verified clinical status
- All in-patients across 3 hospitals
- Swab collection in Universal Transfer Media
- Saliva collection in Spectrum self-collection device
- All samples processed within 72hrs of collection
- Same volume of UTM and saliva input for nucleic acid extraction (300ul)
- Same volume of extraction product (5ul) used for QPCR detection

Sampled at same time



EUA FDA & STATE CERTIFICATIONS



EUA submission for both swab and saliva collection

EUA#200090 EUA#200091

- Copan/Puritan/Hologic swabs
- Spectrum SDNA-1000 saliva collection device
- Automated Chemagen Viral DNA/RNA bead-based extraction chemistry
- ThermoFisher TaqPath COVID-19 detection kit (20ul)
- Perkin Elmer Coronavirus nucleic acid detection kit qPCR (20ul)
- Thermo QuantStudio (384), Via7 (384) cyclers
- NJ DOH approval received
- NY DOH approval received
- <u>Testing initiated across hospitals, telehealth, healthcare networks</u>

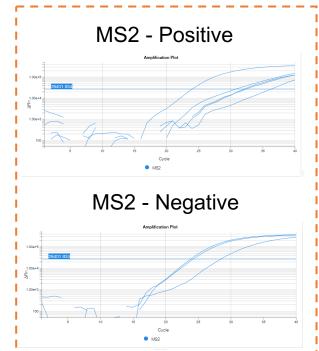


SALIVA

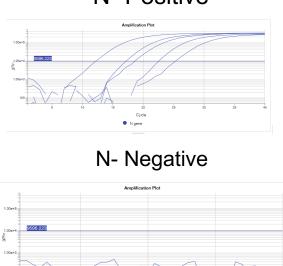
N Gene

ORF1ab

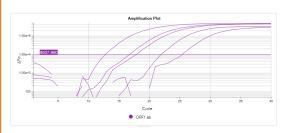




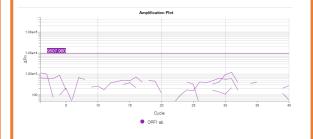




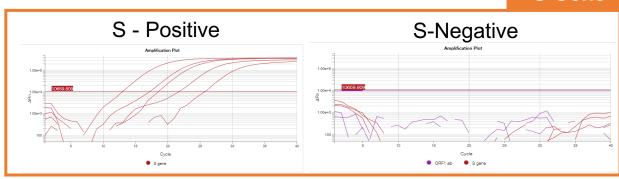
ORF1 ab Positive



ORF1 ab Negative



S Gene

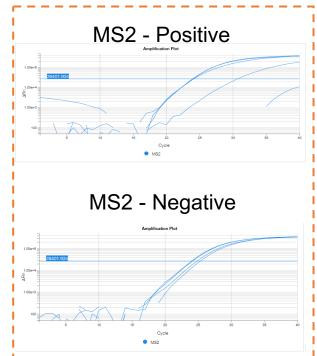


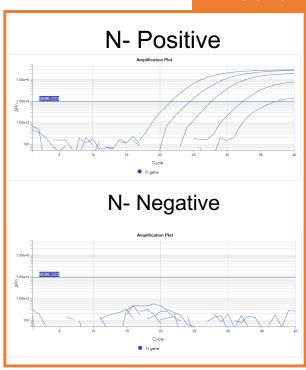
SWABS

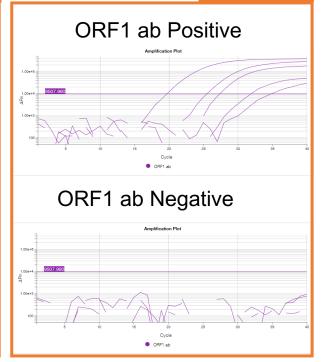
N Gene

ORF1ab

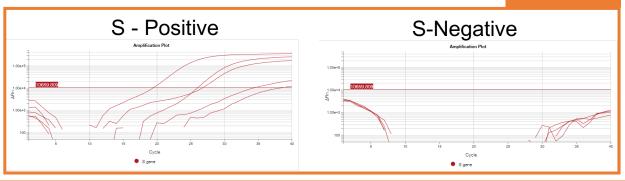




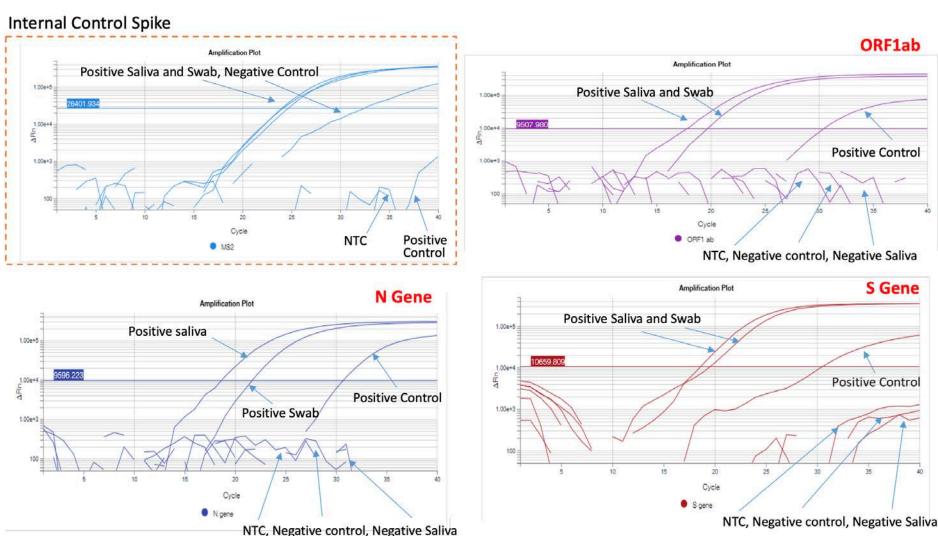




S Gene

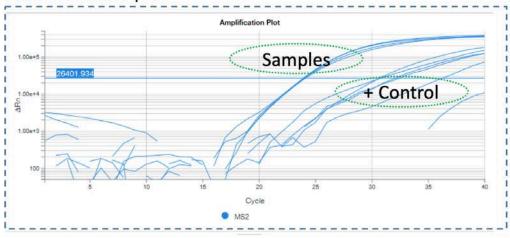


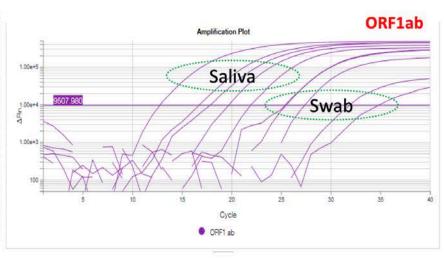
POSITIVE & NEGATIVE SALIVA, POSITIVE SWAB, POSITIVE CONTROL, NEGATIVE CONTROL, NTC

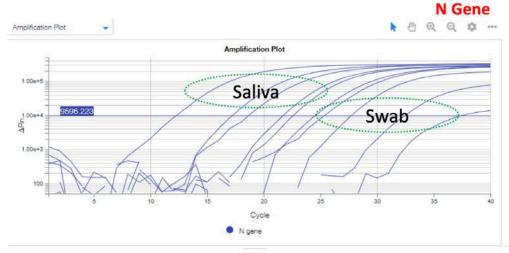


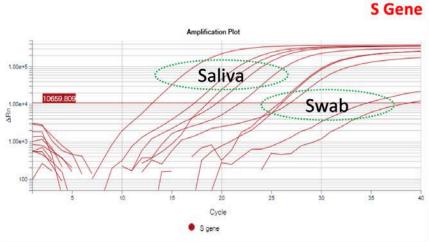
POSITIVE SALIVA & SWAB

Internal Control Spike











DATA SUMMARY

- 100% Positive and Negative agreement for contrived samples
- 100% Positive agreement for 1-2x LoD (4 copies/ml)
- 100% Agreement on all clinical samples
- 100% Agreement on swab vs. saliva results in clinical samples

Sample Test Interpretation								
IC/MS2: JUN	N Gene /VIC (Ct)	ORF1ab Gene/FAM (Ct)	S Gene/ABY (Ct)	Result				
<37	Undetermined	Undetermined	Undetermined	Negative				
<37	Т	wo or Three targets ar	Positive					
<37		One Target is <37	Re-Test; If re-test is the same, then Inconclusive					
Undetermined	Undetermined	Undetermined	Undetermined	Re-Test; If re-test is the same, then Inconclusive				
Control Requirements								
	IC/MS2: JUN	N Gene /VIC (Ct)	ORF1ab Gene/FAM (Ct)	S Gene/ABY (Ct)				
Negative Control	<u><</u> 40	Undetermined	Undetermined	Undetermined				
Positive Control	Undetermined	Three targets are <37						
NTC	Undetermined	Undetermined	Undetermined	Undetermined				





DATA SUMMARY

Contrived Sample Validation

ThermoFisher COVID-19 TaqPath Kit							
Observed Result Expected Result							
	Positive	Negative	Total				
Positive	30	0	30				
Negative	0	30	30				
Total			60				
95% Confidence Interval							
Positive % Agreement for 1-2x LoD			100%				
Positive % Agreement for oth	100%						
Negative % Agreement			100%				

Clinical Sample Validation

I nermofisher New Coronavirus Nucleic Acid Detection Kit							
Observed Result	Expected Result						
	Positive (NP/Sal)	Negative (NP/Sal)	Total				
Positive	30/30	0/0	30/30				
Negative	0/0	30/30	30/30				
Total			120				
95% Confidence Interval							
Positive % Agreement for Clinical Patient NP vs Saliva							
Negative % Agreement	100%						

Discover your advantage.

