

AzureSeq

One Step Universal RT-qPCR Kit
SARS-CoV-2



One Step Universal RT-qPCR Kit SARS-CoV-2



Fast

Less than 1hr 15 min
(Direct Version)



Multiplex

3 targets
per reaction well



Easy

No RNA Extraction
(Direct Version)

Two Protocols

Direct: No RNA Extraction (LDT, RUO)

Extracted: Use CDC Recommended Extraction

- **Increase Your Assay Throughput by 6X***
No RNA Extraction Required, 8 pipetting Steps
- **Reduce Potential User Error**
- **Get Supply Chain Continuity with American Products**

SKU#	20 µl Reactions	10 µl Reactions	Content
AzureSeq-200	200	400	InhibiTaq Plus, Hot Start Mastermix, RTScript, Target specific primers and probes, DTT
AzureSeq-1000	1000	2000	
AzureSeq-2000	2000	4000	
AzureSeq-Custom	Custom	Custom	

For prescription use only. For in-vitro diagnostic use only.

* Compared to two-step, one analyte per well

Targets

2 regions of SARS-CoV-2 virus N nucleocapsid protein gene (N1=FAM, N2=HEX) & control region of RNaseP gene (=TxRed)

Sample

100ng to 1pg using CDC recommended extraction protocols

Cycle

40 Amplification cycles,
LoD: 5-10 copies

Intended for nasopharyngeal (NP) and oropharyngeal (OP) swabs



Performance Comparison

Contrived Clinical Samples

Targets	nCoV2 N1			nCoV2 N2		
	SeqOnce AzureSeq	Thermo Fisher TaqPath	Promega GoTaq	SeqOnce AzureSeq	Thermo Fisher TaqPath	Promega GoTaq
Positives /Total	12/12	12/12	12/12	12/12	12/12	12/12
Mean Ct	34.78	33.12	33.97	35.89	35.38	35.87
StDev Ct	0.31	0.24	0.20	0.27	0.25	0.16

AzureSeq was determined to be compatible with RNA extraction workflow at concentrations at or near LoD. Pooled negative OP swabs were spiked with genomic RNA. Input volume for extraction was 250 µl and elution volume was 80 µl. A 5 µl aliquot of the eluate was added to the PCR reaction.

Sample Processing:
Enable daily processing of hundreds of samples.

Shortened Hands-on Time:
Accurate detection with reduced complexity, time and waste.

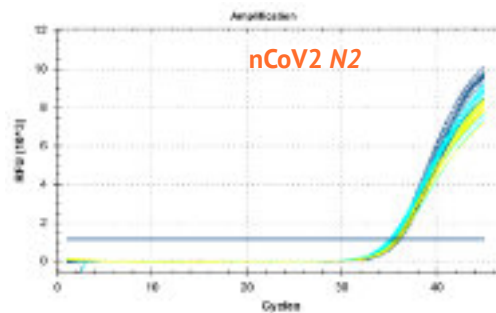
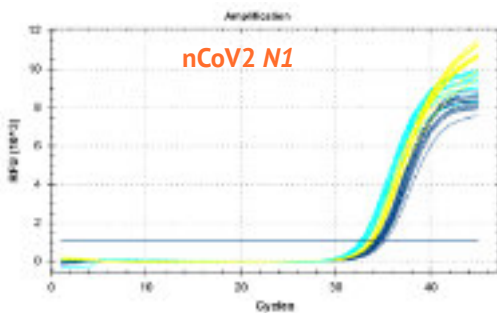
Sensitivity:
Low copy number (5-10 copies) delivers a reliable, highly sensitive one-step RT-qPCR solution for rapid testing.

Compatibility:
Compatible with CDC recommended RNA extraction kits and qPCR instruments.

Built to Your Demands:
Available in user-friendly, custom formats.

Direct Version Compatible VTMs:
Puritan, Copan, CDC, Saline, PBS, Mawi EL

Competitor Products



- SeqOnce AzureSeq
- Thermo Fisher TaqPath
- Promega GoTaq

Detection on nCoV2 N1 and N2 genes: 50 copies of genomic RNA added in a 20 µl reaction. Reaction set-up and RT-qPCR protocol were in accordance with CDC guidance.

Conservation

Poison dart frogs are native to rainforests of South and Central America. About a quarter of the more than 200 species are listed as threatened or critically endangered; the blue poison dart frog (*Dendrobates tinctorius "azureus"*) is one of these. The primary threat to poison dart frogs is loss of habitat due to logging and clearing of the rainforest

SeqOnce supports protecting and conserving endangered and threatened species.

www.seqonce.com/conserve



Ordering & Contact Info

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The logo for SeqOnce Biosciences, featuring the company name in a stylized font with a small graphic element above the 'S'.