

AzureSeq Lyo

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

Lyophilized Formats



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

Lyophilized Format

Convenient

Ready when you are

Easy

Resuspend - Go

Room Temp

Stable at 37°C

Customizable:

Works with both Direct and Indirect protocols

Multiplex - 3 targets per reaction well

Made in America

- Increase your throughput 25%* to 300%
- Reduce potential user error
- Easy shipping & storage
- Excellent for automation
- Supply chain continuity with American products

Sample Processing:

Enable daily processing of hundreds of samples.

Shortened Hands-on Time:

Accurate detection with reduced complexity, time and waste.

Stability:

The lyophilized kit demonstrates longer term stability and lower risk with sensitive samples

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.

Targets

2 regions of SARS-CoV-2 virus N nucleocapsid protein gene plus control region of RNaseP gene

Sample

100ng to 1pg using CDC recommended extraction protocols

Cycles

40 Amplification cycles, LoD: 5-10 copies

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

* Compared to two-step, one analyte per well

Lyophilized Format

Performance Evaluation

Contrived Clinical Samples

Competitor Comparison

Targets	nCoV2 N1			nCoV2 N2		
	SeqOnce AzureSeq	Thermo Fisher TaqPath	Promega GoTaq	SeqOnce AzureSeq	Thermo Fisher TaqPath	Promega GoTaq
Master Mix						
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

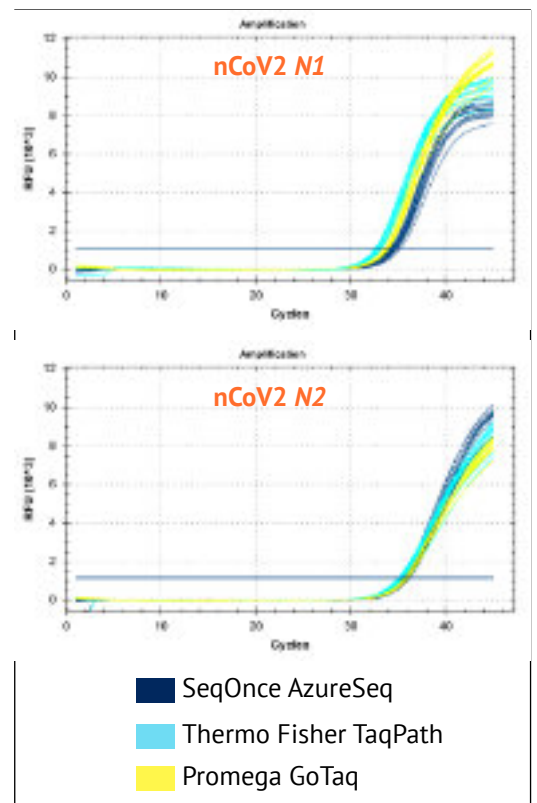
AzureSeq was determined to be compatible with RNA extraction workflow at concentrations at or near LoD. Pooled negative OP swabs were spiked with genomic RNA. Input volume for extraction was 250 µl and elution volume was 80 µl. A 5 µl aliquot of the eluate was added to the PCR reaction.

Wet vs. Lyophilized

nCoV2 N1	AzureSeq			AzureSeq Lyo		
	Copies	Positives/Total	Average Ct	StDev Ct	Positives/Total	Average Ct
20	20/20	34.58	0.31	20/20	34.75	0.95
10	20/20	36.28	0.55	20/20	36.15	0.92
5	20/20	37.05	0.68	20/20	36.76	0.71

nCoV2 N2	AzureSeq			AzureSeq Lyo		
	Copies	Positives/Total	Average Ct	StDev Ct	Positives/Total	Average Ct
40	20/20	34.80	0.29	20/20	35.97	0.36
20	20/20	35.91	0.33	20/20	36.71	0.39
10	20/20	37.01	0.50	20/20	37.67	0.99

AzureSeq (wet) and AzureSeq Lyo (lyophilized) show comparable results using CDC specified primers and probes for nCoV2 N1 and N2 and RPP controls and the CDC recommended testing protocol.



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/conserv



Ordering & Contact Info

SKU#	20 μ l Reactions	10 μ l Reactions	Content
AzureSeq-200-Lyo	200	400	Lyophilized: InhibiTaq Plus, Hot Start Mastermix, RTScript, target specific primers and probes, DTT Solution: Resuspension buffer
AzureSeq-1000-Lyo	1000	2000	
AzureSeq-2000-Lyo	2000	4000	
AzureSeq-Custom-Lyo	Custom	Custom	

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