

# CERTIFICATE OF ANALYSIS

## 2019-nCoV-Panel Pseudovirus Standard Reference

### Product information

Name	2019-nCoV-Panel Pseudovirus Standard Reference
Catalog No.	CBV30023
Lot No.	CGD2021011511
Format	Virus
Gene	Gene N, Gene E, ORF1ab/RdRP
Sequence	<p>Gene N (1260bp):</p> <pre> ATGTCTGATAATGGACCCCAAATCAGCGAAATGCACCCCGCA TTACGTTTGGTGGACCCTCAGATTCAACTGGCAGTAACCAGAA TGGAGAACGCAGTGGGGCGCGATCAAACAACGTCCGGCCCA AGGTTTACCCAATAATACTGCGTCTTGGTTCACCGCTCTCACTC AACATGGCAAGGAAGACCTTAAATTCCCTCGAGGACAAGGCGT TCCAATTAACACCAATAGCAGTCCAGATGACCAAATTGGCTAC TACCGAAGAGCTACCAGACGAATTCGTGGTGGTGACGGTAAAA TGAAAGATCTCAGTCCAAGATGGTATTTCTACTACCTAGGAAC TGGGCCAGAAGCTGGACTTCCCTATGGTGCTAACAAAGACGGC ATCATATGGGTTGCAACTGAGGGAGCCTTGAATACACCAAAG ATCACATTGGCACCCGCAATCCTGCTAACAATGCTGCAATCGT GCTACAACCTCCTCAAGGAACAACATTGCCAAAAGGCTTCTAC GCAGAAGGGAGCAGAGGGCGGCAGTCAAGCCTCTTCTCGTTTCT CATCACGTAGTCGCAACAGTTCAAGAAATTCAACTCCAGGCAG CAGTAGGGGAACCTTCTCCTGCTAGAAATGGCTGGCAATGGCGGT GATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAGCT TGAGAGCAAAATGTCTGGTAAAGGCCAACAAACAAGGCCA AACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAAGCCT CGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAA GCTTTCGGCAGACGTGGTCCAGAACAACCCAAGGAAATTTG GGGACCAGGAATAATCAGACAAGGAAGTATTACAAACATT GGCCGCAAATTGCACAATTTGCCCCAGCGCTTCAGCGTTCTTC GGAATGTCGCGCATTGGCATGGAAGTCACACCTTCGGGAACGT GGTTGACCTACACAGGTGCCATCAAATTGGATGACAAAGATCC AAATTTCAAAGATCAAGTCATTTTGTGCTGAATAAGCATATTGAC GCATACAAAACATTCCCACCAACAGAGCCTAAAAAGGACAAA AAGAAGAAGGCTGATGAACTCAAGCCTTACCGCAGAGACAG AAGAAACAGCAAACCTGTGACTCTTCTTCCCTGCTGCAGATTGG ATGATTTCTCAAACAATTGCAACAATCCATGAGCAGTGCTGA CTCAACTCAGGCCTAA           </pre> <p>Gene E (228bp):</p> <pre> ATGTAATCATTTCGTTTCGGAAGAGACAGGTACGTTAATAGTTA ATAGCGTACTTCTTTTCTTGCTTTCGTGGTATTCTTGCTAGTTA CACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGC           </pre>

AATATTGTAAACGTGAGTCTTGTAACCTTCTTTTTACGTTA  
CTCTCGTGTTAAAAATCTGAATTCTTCTAGAGTTCCTGATCTC  
TGGTCTAA

ORF1ab/RdRP (2995bp)

GTTGTCTGTAAGTCCGTTGCCACATAGATCATCCAAATCCTAAA  
GGATTTTGTGACTTAAAAGGTAAGTATGTACAAATACCTACAA  
CTTGTGCTAATGACCCTGTGGGTTTTACACTTAAAAACACAGTC  
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TGATGAGTTAACAGGACACATGTTAGACATGTATTCTGTTATG  
CTTACTAATGATAACACTTCAAGGTATTGGGAACCTGAGTTTTA  
TGAGGCTATGTACACACCCGCATACAGTCTTACAG

NCBI No.	NC_045512.2
Buffer	1xPBS
Storage Conditions	-80°C
Date of Manufacture	01.15.2021
Expiry	12 months from the date of manufacture

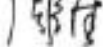
## Quality Control

Test Items	Standard	Results	Passed
Quantity	1ml/vial*1vial	1ml/vial*1vial	√
N Copy Number	>1x10 <sup>7</sup> copies/ml (DdPCR)	1.84x10 <sup>7</sup> copies/ml	√
E Copy Number	>1x10 <sup>7</sup> copies/ml (DdPCR)	5.85x10 <sup>7</sup> copies/ml	√
ORF1ab/RdRP Copy Number	>1x10 <sup>7</sup> copies/ml (DdPCR)	2.48x10 <sup>7</sup> copies/ml	√
DNA Residue	<1% (DdPCR)	0.69% (ORF1ab/RdRP) 0.90% (Gene N) 0.98% (Gene E)	√

### Caution:

For research use only.

If you have any questions about the Certificate of Analysis, please contact us.

Certified by:  Date:\*\*\*\*