

CERTIFICATE OF ANALYSIS

2019-nCoV-Panel Pseudovirus Standard Reference

Product information

Name	2019-nCoV-Panel Pseudovirus Standard Reference
Catalog No.	CBV30023
Lot No.	CGD2020062911
Format	Virus
Gene	Gene N, Gene E, ORF1ab/RdRP
Sequence	<p>Gene N (1260bp):</p> <pre> ATGTCTGATAATGGACCCCAAATCAGCGAAATGCACCCCGCA TTACGTTTGGTGGACCCTCAGATTCAACTGGCAGTAACCAGAA TGGAGAACGCAGTGGGGCGCGATCAAACAACGTTCGGCCCCA AGGTTTACCCAATAATACTGCGTCTTGGTTCACCGCTCTCACTC AACATGGCAAGGAAGACCTTAAATTCCCTCGAGGACAAGGCGT TCCAATTAACACCAATAGCAGTCCAGATGACCAAATTGGCTAC TACCGAAGAGCTACCAGACGAATTCGTGGTGGTGACGGTAAAA TGAAAGATCTCAGTCCAAGATGGTATTTCTACTACCTAGGAAC TGGGCCAGAAGCTGGACTTCCCTATGGTGCTAACAAAGACGGC ATCATATGGGTTGCAACTGAGGGAGCCTTGAATACACCAAAG ATCACATTGGCACCCGCAATCCTGCTAACAATGCTGCAATCGT GCTACAACCTCCTCAAGGAACAACATTGCCAAAAGGCTTCTAC GCAGAAGGGAGCAGAGGGCGGCAGTCAAGCCTCTTCTCGTTTCT CATCACGTAGTCGCAACAGTTCAAGAAATTCAACTCCAGGCAG CAGTAGGGGAACTTCTCCTGCTAGAATGGCTGGCAATGGCGGT GATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAGCT TGAGAGCAAAATGTCTGGTAAAGGCCAACAAACAAGGCCA AACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAAGCCT CGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAA GCTTTCGGCAGACGTGGTCCAGAACAACCCAAGGAAATTTG GGGACCAGGAACTAATCAGACAAGGAACTGATTACAAACATT GGCCGCAAATTGCACAATTTGCCCCAGCGCTTCAGCGTTCTTC GGAATGTCGCGCATTGGCATGGAAGTCACACCTTCGGGAACGT GGTTGACCTACACAGGTGCCATCAAATTGGATGACAAAGATCC AAATTTCAAAGATCAAGTCATTTTGTGCTGAATAAGCATATTGAC GCATACAAAACATTCCCACCAACAGAGCCTAAAAAGGACAAA AAGAAGAAGGCTGATGAACTCAAGCCTTACCGCAGAGACAG AAGAAACAGCAAACCTGTGACTCTTCTTCTGCTGCAGATTGG ATGATTTCTCAAACAATTGCAACAATCCATGAGCAGTGCTGA CTCAACTCAGGCCTAA </pre> <p>Gene E (228bp):</p> <pre> ATGTAATCATTTCGTTTCGGAAGAGACAGGTACGTTAATAGTTA ATAGCGTACTTCTTTTCTTGCTTTCGTGGTATTCTTGCTAGTTA CACTAGCCATCCTTACTGCGCTTCGATTGTGTGCGTACTGCTGC </pre>

AATATTGTAAACGTGAGTCTTGTAACCTTCTTTTTACGTTA
CTCTCGTGTTAAAAATCTGAATTCTTCTAGAGTTCCTGATCTC
TGGTCTAA

ORF1ab/RdRP (2995bp)

GTTGTCTGTAAGTCCGTTGCCACATAGATCATCCAAATCCTAAA
GGATTTTGTGACTTAAAAGGTAAGTATGTACAAATACCTACAA
CTTGTGCTAATGACCCTGTGGGTTTTACACTTAAAACACAGTC
TGTACCGTCTGCGGTATGTGGAAAGGTTATGGCTGTAGTTGTG
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GTTTTTAAACGGGTTTGCAGGTGTAAGTGCAGCCCGTCTTACACC
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GTTGTGATGATGATTATTTCAATAAAAAGGACTGGTATGATTTT
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GCAGAGTCACATGTTGACACTGACTTAACAAAGCCTTACATTA
AGTGGGATTTGTTAAAATATGACTTCACGGAAGAGAGGTTAAA
ACTCTTTGACCGTTATTTTAAATATTGGGATCAGACATAACCACC
CAAATTGTGTTAACTGTTTGGATGACAGATGCATTCTGCATTGT
GCAAACCTTAATGTTTTATTCTCTACAGTGTCCACCTACAAG
TTTTGGACCACTAGTGAGAAAAATTTTGTGATGGTGTTCAT
TTGTAGTTTCAACTGGATACCACTTCAGAGAGCTAGGTGTTGTA
CATAATCAGGATGTAACTTACATAGCTCTAGACTTAGTTTTAA
GGAATTACTTGTGTATGCTGCTGACCCTGCTATGCACGCTGCTT
CTGGTAATCTATTACTAGATAAACGCACTACGTGCTTTTCAGTA
GCTGCACTTACTAACAATGTTGCTTTTCAAAGTCAAACCCCG
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TCTTTAAGGAAGGAAGTTCTGTTGAATTAACACTTCTTCTTT
GCTCAGGATGGTAATGCTGCTATCAGCGATTATGACTACTATC
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GTAGTTGAAGTTGTTGATAAGTACTTTGATTGTTACGATGGTGG
CTGTATTAATGCTAACCAAGTCATCGTCAACAACCTAGACAAA
TCAGCTGGTTTTCCATTTAATAAATGGGGTAAGGCTAGACTTTA
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ATACAAAACGTAATGTCATCCCTACTATAACTCAAATGAATCT
TAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCACCGTAGCT
GGTGTCTCTATCTGTAGTACTATGACCAATAGACAGTTTCATCA

AAAATTATTGAAATCAATAGCCGCCACTAGAGGAGCTACTGTA
 GTAATTGGAACAAGCAAATTCTATGGTGGTTGGCACAACATGT
 TAAAACTGTTTATAGTGATGTAGAAAACCCTCACCTTATGGG
 TTGGGATTATCCTAAATGTGATAGAGCCATGCCTAACATGCTT
 AGAATTATGGCCTCACTTGTCTTGCTCGCAAACATACAACGTG
 TTGTAGCTTGTACACCGTTTCTATAGATTAGCTAATGAGTGTG
 CTC AAGTATTGAGTGAAATGGTCATGTGTGGCGGTTCACTATA
 TGTTAAACCAGGTGGAACCTCATCAGGAGATGCCACAACGTGCT
 TATGCTAATAGTGTTTTTAACATTTGTCAAGCTGTCACGGCCAA
 TGTTAATGCACTTTTATCTACTGATGGTAACAAAATTGCCGATA
 AGTATGTCCGCAATTTACAACACAGACTTTATGAGTGTCTCTAT
 AGAAATAGAGATGTTGACACAGACTTTGTGAATGAGTTTTACG
 CATATTTGCGTAAACATTTCTCAATGATGATACTCTCTGACGAT
 GCTGTTGTGTGTTTCAATAGCACTTATGCATCTCAAGGTCTAGT
 GGCTAGCATAAAGAAGCTTTAAGTCAGTTCTTTATTATCAAAC
 AATGTTTTTATGTCTGAAGCAAATGTTGGACTGAGACTGACC
 TTAATAAAGGACCTCATGAATTTTGTCTCAACATACAATGCTA
 GTTAAACAGGGTGATGATTATGTGTACCTTCCTTACCCAGATCC
 ATCAAGAATCCTAGGGGCCGGCTGTTTTGTAGATGATATCGTA
 AAAACAGATGGTACACTTATGATTGAACGGTTCGTGTCTTTAG
 CTATAGATGCTTACCACTTACTAAACATCCTAATCAGGAGTAT
 GCTGATGTCTTTCATTTGTA CTTACAATACATAAGAAAGCTACA
 TGATGAGTTAACAGGACACATGTTAGACATGTATTCTGTTATG
 CTTACTAATGATAACACTTCAAGGTATTGGGAACCTGAGTTTTA
 TGAGGCTATGTACACACCCGCATACAGTCTTACAG

NCBI No.	NC_045512.2
Buffer	1xPBS
Storage Conditions	-80°C
Date of Manufacture	06.29.2020
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 ⁷ copies/ml	4.7x10 ⁷ copies/ml	√
E Copy Number	>1x10 ⁷ copies/ml	1.2 x10 ⁷ copies/ml	√
ORF1ab/RdRP Copy Number	>1x10 ⁷ copies/ml	3.9x10 ⁷ copies/ml	√

Caution:

For research use only.

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

Certified by:  Date:****