

# CERTIFICATE OF ANALYSIS

## 2019-nCoV-Panel2 Pseudovirus

### Product information

Name	2019-nCoV-Panel2 Pseudovirus
Catalog No.	CBV30030
Lot No.	CGD2022050712
Format	Virus
Gene	Gene N, ORF1ab/RdRP
Sequence	<p>Gene N (1260bp):</p> <pre> ATGTCTGATAATGGACCCCAAATCAGCGAAATGCACCCCGCA TTACGTTTGGTGGACCCTCAGATTCAACTGGCAGTAACCAGAA TGGAGAACGCAGTGGGGCGCGATCAAACAACGTCCGGCCCCA AGGTTTACCCAATAATACTGCGTCTTGGTTCACCGCTCTCACTC AACATGGCAAGGAAGACCTTAAATTCCCTCGAGGACAAGGCGT TCCAATTAACACCAATAGCAGTCCAGATGACCAAATTGGCTAC TACCGAAGAGCTACCAGACGAATTCGTGGTGGTGACGGTAAAA TGAAAGATCTCAGTCCAAGATGGTATTTCTACTACCTAGGAAC TGGGCCAGAAGCTGGACTTCCCTATGGTGCTAACAAAGACGGC ATCATATGGGTTGCAACTGAGGGAGCCTTGAATACACCAAAG ATCACATTGGCACCCGCAATCCTGCTAACAATGCTGCAATCGT GCTACAACCTCCTCAAGGAACAACATTGCCAAAAGGCTTCTAC GCAGAAGGGAGCAGAGGGCGGCAGTCAAGCCTCTTCTCGTTTCT CATCACGTAGTCGCAACAGTTCAAGAAATTCAACTCCAGGCAG CAGTAGGGGAACTTCTCCTGCTAGAATGGCTGGCAATGGCGGT GATGCTGCTCTTGCTTTGCTGCTGCTTGACAGATTGAACCAGCT TGAGAGCAAAATGTCTGGTAAAGGCCAACAAACAAGGCCA AACTGTCACTAAGAAATCTGCTGCTGAGGCTTCTAAGAAGCCT CGGCAAAAACGTACTGCCACTAAAGCATACAATGTAACACAA GCTTTCGGCAGACGTGGTCCAGAACAACCCAAGGAAATTTTG GGGACCAGGAATAATCAGACAAGGAACTGATTACAAACATT GGCCGCAAATTGCACAATTTGCCCCAGCGCTTCAGCGTTCTTC GGAATGTCGCGCATTGGCATGGAAGTCACACCTTCGGGAACGT GGTTGACCTACACAGGTGCCATCAAATTGGATGACAAAGATCC AAATTTCAAAGATCAAGTCATTTTGTGCTGAATAAGCATATTGAC GCATACAAAACATTCCCACCAACAGAGCCTAAAAAGGACAAA AAGAAGAAGGCTGATGAACTCAAGCCTTACCGCAGAGACAG AAGAAACAGCAAACCTGTGACTCTTCTTCCCTGCTGCAGATTGG ATGATTTCTCAAACAATTGCAACAATCCATGAGCAGTGCTGA CTCAACTCAGGCCTAA </pre> <p>ORF1ab/RdRP (2995bp)</p> <pre> GTTGTCTGTAAGTCCGTTGCCACATAGATCATCAAATCCTAAA GGATTTTGTGACTTAAAAGGTAAGTATGTACAAATACCTACAA </pre>

CTTGTGCTAATGACCCTGTGGGTTTTACACTTAAAAACACAGTC  
TGTACCGTCTGCGGTATGTGGAAAGGTTATGGCTGTAGTTGTG  
ATCAACTCCGCGAACCCATGCTTCAGTCAGCTGATGCACAATC  
GTTTTTAAACGGGTTTTCGGGTGTAAGTGCAGCCCCTTACACC  
GTGCGGCACAGGCACTAGTACTGATGTCGTATACAGGGCTTTT  
GACATCTACAATGATAAAGTAGCTGGTTTTGCTAAATTCCTAA  
AAACTAATTGTTGTCGCTTCCAAGAAAAGGACGAAGATGACAA  
TTTAATTGATTCTTACTTTGTAGTTAAGAGACACACTTTCTCTA  
ACTACCAACATGAAGAAACAATTTATAATTTACTTAAGGATTG  
TCCAGCTGTTGCTAAACATGACTTCTTTAAGTTTAGAATAGACG  
GTGACATGGTACCACATATACACGTCAACGTCTTACTAAATA  
CACAAATGGCAGACCTCGTCTATGCTTTAAGGCATTTTGATGAA  
GGTAATTGTGACACATTAAGAAATACTTGTACATACAATT  
GTTGTGATGATGATTATTTCAATAAAAAGGACTGGTATGATTTT  
GTAGAAAACCCAGATATATTACGCGTATACGCCAACTTAGGTG  
AACGTGTACGCCAAGCTTTGTTAAAAACAGTACAATTCTGTGA  
TGCCATGCGAAATGCTGGTATTGTTGGTGTACTGACATTAGAT  
AATCAAGATCTCAATGGTAACTGGTATGATTTCCGGTGATTTTCAT  
ACAAACCACGCCAGGTAGTGGAGTTCCTGTTGTAGATTCTTATT  
ATTCATTGTTAATGCCTATATTAACCTTGACCAGGGCTTTAACT  
GCAGAGTCACATGTTGACACTGACTTAACAAAGCCTTACATTA  
AGTGGGATTTGTTAAAATATGACTTCACGGAAGAGAGGTTAAA  
ACTCTTTGACCCTTATTTTAAATATTGGGATCAGACATACCACC  
CAAATTGTGTTAACTGTTTGGATGACAGATGCATTCTGCATTGT  
GCAAACCTTAATGTTTTATTCTCTACAGTGTCCACCTACAAG  
TTTTGGACCACTAGTGAGAAAAATATTTGTTGATGGTGTTCAT  
TTGTAGTTTCAACTGGATACCACTTCAGAGAGCTAGGTGTTGTA  
CATAATCAGGATGTAACTTACATAGCTCTAGACTTAGTTTTAA  
GGAATTACTTGTGTATGCTGCTGACCCTGCTATGCACGCTGCTT  
CTGGTAATCTATTACTAGATAAACGCACTACGTGCTTTTCAGTA  
GCTGCACTTACTAACAATGTTGCTTTTCAAACCTGTCAAACCCGG  
TAATTTTAAACAAAGACTTCTATGACTTTGCTGTGTCTAAGGGTT  
TCTTTAAGGAAGGAAGTTCTGTTGAATTAACACTTCTTCTTT  
GCTCAGGATGGTAATGCTGCTATCAGCGATTATGACTACTATC  
GTTATAATCTACCAACAATGTGTGATATCAGACAACACTACTATT  
GTAGTTGAAGTTGTTGATAAGTACTTTGATTGTTACGATGGTGG  
CTGTATTAATGCTAACCAAGTCATCGTCAACAACCTAGACAAA  
TCAGCTGGTTTTCCATTTAATAAATGGGGTAAGGCTAGACTTTA  
TTATGATTCAATGAGTTATGAGGATCAAGATGCACTTTTTCGCAT  
ATACAAAACGTAATGTCATCCCTACTATAACTCAAATGAATCT  
TAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCACCGTAGCT  
GGTGTCTCTATCTGTAGTACTATGACCAATAGACAGTTTCATCA  
AAAATTATTGAAATCAATAGCCGCCACTAGAGGAGCTACTGTA  
GTAATTGGAACAAGCAAATTCTATGGTGGTTGGCACAACATGT  
TAAAACTGTTTATAGTGATGTAGAAAACCCTCACCTTATGGG  
TTGGGATTATCCTAAATGTGATAGAGCCATGCCTAACATGCTT  
AGAATTATGGCCTCACTTGTCTTGCTCGCAAACATACAACGTG  
TTGTAGCTTGTACACCCGTTTCTATAGATTAGCTAATGAGTGTG  
CTCAAGTATTGAGTGAAATGGTTCATGTGTGGCGGTTCACTATA

TGTTAAACCAGGTGGAACCTCATCAGGAGATGCCACAACCTGCT  
 TATGCTAATAGTGTTTTTAACATTTGTCAAGCTGTCACGGCCAA  
 TGTTAATGCACTTTTATCTACTGATGGTAACAAAATTGCCGATA  
 AGTATGTCCGCAATTTACAACACAGACTTTATGAGTGTCTCTAT  
 AGAAATAGAGATGTTGACACAGACTTTGTGAATGAGTTTTACG  
 CATATTTGCGTAAACATTTCTCAATGATGATACTCTCTGACGAT  
 GCTGTTGTGTGTTTCAATAGCACTTATGCATCTCAAGGTCTAGT  
 GGCTAGCATAAAGAACTTTAAAGTCAGTTCTTTATTATCAAAC  
 AATGTTTTTATGTCTGAAGCAAATGTTGGACTGAGACTGACC  
 TTAATAAGGACCTCATGAATTTTGTCTCTCAACATACAATGCTA  
 GTTAAACAGGGTGATGATTATGTGTACCTTCCTTACCCAGATCC  
 ATCAAGAATCCTAGGGGCCGGCTGTTTTGTAGATGATATCGTA  
 AAAACAGATGGTACACTTATGATTGAACGGTTCGTGTCTTTAG  
 CTATAGATGCTTACCCACTTACTAAACATCCTAATCAGGAGTAT  
 GCTGATGTCTTTCATTTGTACTIONTACAATACATAAGAAAGCTACA  
 TGATGAGTTAACAGGACACATGTTAGACATGTATTCTGTTATG  
 CTTACTAATGATAACACTTCAAGGTATTGGGAACCTGAGTTTTA  
 TGAGGCTATGTACACACCCGCATACAGTCTTACAG

NCBI No.	NC_045512.2
Buffer	1xPBS
Storage Conditions	-80°C
Date of Manufacture	05.07.2022
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)	6.2x10 <sup>7</sup> copies/ml	√
ORF1ab/RdRP Copy Number	>1x10 <sup>7</sup> copies/ml (DdPCR)	2.0x10 <sup>7</sup> copies/ml	√
DNA Residue	<1% (DdPCR)	0.69% (ORF1ab/RdRP) 0.90% (Gene N)	√

### Caution:

For research use only.

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

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