

# CERTIFICATE OF ANALYSIS

## SARS-Panel Pseudovirus Standard Reference

### Product information

Name	SARS-Panel Pseudovirus Standard Reference
Catalog No.	CBV30024
Lot No.	CGD2020072501
Format	Virus
Gene	ORF1ab/RdRP (2795bp) 、 Gene M (666bp) 、 Gene N (1269bp) 、 Gene E (231bp)
Sequence	<p>ORF1ab/RdRP:</p> <p>TCTGCGGATGCATCAACGTTTTTAAACGGGTTTGCGGTGTAAGTGCAGCCCGTCTTACAC            CGTGCGGCACAGGCACTAGTACTGATGTCGTCTACAGGGCTTTTGATATTTACAACGAAA            AAGTTGCTGGTTTTGCAAAGTTCCTAAAACTAATTGCTGTCGCTTCCAGGAGAAGGATG            AGGAAGGCAATTTATTAGACTCTTACTTTGTAGTTAAGAGGCATACTATGTCTAACTACC            AACATGAAGAGACTATTTATAACTTGGTTAAAGATTGTCCAGCGGTTGCTGTCCATGACT            TTTTCAAGTTTAGAGTAGATGGTGACATGGTACCACATATATCACGTCAGCGTCTAACTA            AATACACAATGGCTGATTTAGTCTATGCTCTACGTCATTTTGATGAGGGTAATTGTGATA            CATTAAAAGAAATACTCGTCACATAACAATTGCTGTGATGATGATTATTTCAATAAGAAGG            ATTGGTATGACTTCGTAGAGAATCCTGACATCTTACGCGTATATGCTAACTTAGGTGAGC            GTGTACGCCAATCATTATTTAAAGACTGTACAATTCTGCGATGCTATGCGTGATGCAGGCA            TTGTAGGCGTACTGACATTAGATAATCAGGATCTTAATGGGAAGTGTACGATTTCCGGTG            ATTTTCGTACAAGTAGCACCAGGCTGCGGAGTTCCTATTGTGGATTTCATATTACTCATTGC            TGATGCCCATCCTCAGTTTACTAGGGCATTGGCTGCTGAGTCCCATATGGATGCTGATC            TCGCAAACCACCTTATTAAGTGGGATTTGCTGAAATATGATTTTACGGAAGAGAGACTTT            GTCTCTTCGACCGTTATTTTAAATATTGGGACCAGACATAACCATCCCAATTGTATTAAC            GTTTGGATGATAGGTGTATCCTTCATTGTGCAAACCTTTAATGTGTTATTTTCTACTGTGT            TTCCACCTACAAGTTTTGGACCACTAGTAAGAAAAATATTTGTAGATGGTGTTCCTTTTG            TTGTTTCAACTGGATAACATTTTCGTGAGTTAGGAGTCGTACATAATCAGGATGTAACT            TACATAGCTCGCGTCTCAGTTTCAAGGAACCTTTAGTGTATGCTGCTGATCCAGCTATGC            ATGCAGCTTCTGGCAATTTATGCTAGATAAACGCACTACATGCTTTTTCAGTAGCTGCAC            TAACAAACAATGTTGCTTTTCAAAGTGTCAAACCCGGTAATTTTAATAAAGACTTTTATG            ACTTTGCTGTGCTAAAGGTTTCTTTAAGGAAGGAAGTTCGTGTTGAACATAAACACTTCT            TCTTTGCTCAGGATGGCAACGCTGCTATCAGTGATTATGACTATTATCGTTATAATCTGC            CAACAATGTGTGATATCAGACAACCTCCTATTCGTAGTTGAAGTGTGATAAATACTTTG            ATTGTTACGATGGTGGCTGTATTAATGCCAACAAGTAATCGTTAACAATCTGGATAAAT            CAGCTGGTTTTCCATTTAATAAATGGGGTAAGGCTAGACTTTATTATGACTCAATGAGTT            ATGAGGATCAAGATGCACCTTTTCGCGTATACTAAGCGTAATGTCATCCCTACTATAACTC            AAATGAATCTTAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCACCCTAGCTGGTGTCT            CTATCTGTAGTACTATGACAAATAGACAGTTTCATCAGAAATTAATTGAAGTCAATAGCCG            CCACTAGAGGAGCTACTGTGGTAATTGGAACAAGCAAGTTTTACGGTGGCTGGCATAATA            TGTTAAAACACTGTTTACAGTGATGTAGAACTCCACACCTTATGGGTGGGATTATCCAA            AATGTGACAGAGCCATGCCTAACATGCTTAGGATAATGGCCTCTCTTGTCTTCTGCTCGCA            AACATAACACTTGCTGTAACCTATCACACCGTTTCTACAGGTTAGCTAACGAGTGTGCGC            AAGTATTAAGTGAAGTGGTCAATGTGTGGCGGCTCACTATATGTTAAACCAGGTGGAACAT            CATCCGGTGATGCTACAACCTGCTTATGCTAATAGTGTCTTTAACATTTGTCAAGCTGTTA</p>

CAGCCAATGTAATGCACCTCTTTCAACTGATGGTAATAAGATAGCTGACAAGTATGTCC  
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TCGTGGATGAGTTTTACGCTTACCTGCGTAAACATTTCTCCATGATGATTTCTTCTGATG  
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ATGAGGCTATGTACACACCACATACAGTCTTGCAG

**Gene M:**

ATGGCAGACACGGTACTATTACCGTTGAGGAGCTTAAACAACCTCTGGAACAATGGAAC  
CTAGTAATAGGTTTCTTATCTTAGCCTGGATTATGTTACTACAATTTGCCTATTCTAAT  
CGGAACAGGTTTTTGTACATAATAAAGCTTGTCTTCTGCTCTTGTGGCCAGTAACA  
CTTGCTTGTTTGTGCTTGTGCTGTCTACAGAATTAATTGGGTGACTGGCGGATTGCC  
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CTGTTTGTGCTACCCGCTCAATGTGGTCAATCAACCCAGAAAACAAACATTTCTTCTCAAT  
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GGAGCGTCGACGCTGTAGGCACTGATTCAGGTTTTGCTGCATACAACCGTACCCTATT  
GGAAACTATAAATTAATACAGACCACGCCGGTAGCAACGACAATATTGCTTTGCTAGTA  
CAGTAA

**Gene N:**

ATGTCTGATAATGGACCCCAATCAAACCAACGTAGTGCCCCCGCATTACATTTGGTGG  
CCCACAGATTCAACTGACAATAACAGAAATGGAGGACGCAATGGGGCAAGGCCAAAACAG  
CGCCGACCCCAAGGTTTACCAATAATACTGCGTCTTGGTTCACAGCTCTCACTCAGCAT  
GGCAAGGAGGAACTTAGATTCCCTCGAGGCCAGGGCGTTCCAATCAACACCAATAGTGGT  
CCAGATGACCAAAATGGCTACTACCGAAGAGCTACCCGACGAGTTTCGTGGTGGTGACGGC  
AAAATGAAAGAGCTCAGCCCCAGATGGTACTTCTATTACCTAGGAACTGGCCAGAAGCT  
TCACTTCCCTACGGCGCTAACAAAGAAGGCATCGTATGGGTTGCAACTGAGGGAGCCTTG  
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CAACTTCTCAAGGAACAACATTTGCCAAAAGGCTTCTACGACAGGGGAAGCAGAGGGCGC  
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TACAAAACATTTCCACCAACAGAGCCTAAAAGGACAAAAAGAAAGACTGATGAAGCT  
CAGCCTTTGCCGACAGACAAAAGAAGCAGCCCACTGTGACTCTTCTTCTGCGGCTGAC  
ATGGATGATTTCTCCAGACAACCTTCAAAATTCATGAGTGGAGCTTCTGCTGATTCAACT  
CAGGCATAA

	<b>Gene E:</b> ATGTACTCATTTCGTTTCGGAAGAAACAGGTACGTTAATAGTTAATAGCGTACTTCTTTTT CTTGCTTTTCGTGGTATTCTTGCTAGTCACACTAGCCATCCTTACTGCGCTTCGATTGTGT GCGTACTGCTGCAATATTGTTAACGTGAGTTTAGTAAAACCAACGGTTTACGTCTACTCG CGTGTTAAAAATCTGAACTCTTCTGAAGGAGTTCTGATCTTCTGGTCTAA
NCBI No.	NC_004718.3
Buffer	1xPBS
Storage Conditions	-80°C
Date of Manufacture	07.25.2020
Expiry	12 months from the date of manufacture

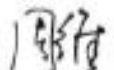
## Quality Control

Test Items	Standard	Results	Passed
Quantity	1ml/vial*1vial	1ml/vial*1vial	√
ORF1ab Copy Number	>1x10 <sup>7</sup> copies/ml	>1x10 <sup>7</sup> copies/ml	√
Gene N Copy Number	>1x10 <sup>7</sup> copies/ml	>1x10 <sup>7</sup> copies/ml	√
Gene M Copy Number	>1x10 <sup>7</sup> copies/ml	>1x10 <sup>7</sup> copies/ml	√
Gene E Copy Number	>1x10 <sup>7</sup> copies/ml	>1x10 <sup>7</sup> copies/ml	√

### Caution:

For research use only.

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

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