

CERTIFICATE OF ANALYSIS

Product Name	HCoV-OC43 Spike glycoprotein
Cat No.	RP30011
Lot No	E1319020E
Sequence	See appendix for details
Modification	N/A
Size	Subpool 1: 4.2mg and Subpool 2: 4.2mg
Storage	-20°C
Recommended Solvent*	dimethyl sulfoxide(Analytical grade)
HPLC purity	Crude
Appearance	White lyophilized powder
Comments	TFA salts

*Note: Above recommended solvents for reference only. If there is any request for detailed dissolution conditions, we suggest you choose our 'Peptide Solubility Test Service'.

Caution:

For laboratory or further manufacturing use only. Not intended for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (TollFree), or 1-732-885-9188.

Shanshan Wei

Certified by:

Date: 07/15/2021

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Appendix:

Subpool 1			
Sequence	MW	Quantity	Purity
MFLILLISLPTAFAV	1649. 10	25ug	Crude
LLISLPTAFVIGDL	1542. 86	25ug	Crude
LPTAFVIGDLKCTS	1535. 81	25ug	Crude
FAVIGDLKCTSDNIN	1609. 81	25ug	Crude
GDLKCTSDNINDKDT	1638. 72	25ug	Crude
CTSDNINDKDTGPPP	1573. 64	25ug	Crude

NINDKDTGPPPISTD	1583.66	25ug	Crude
KDTGPPPISTDTVDV	1541.66	25ug	Crude
PPPISTDTVDVTNGL	1525.66	25ug	Crude
STDVTVDVTNGLGTY	1605.66	25ug	Crude
VDVTNGLGTYVLDLDR	1684.85	25ug	Crude
NGLGTYVLDLDRVYLN	1759.96	25ug	Crude
TYVLDLDRVYLNNTLFL	1881.14	25ug	Crude
LDRVYLNNTLFLNGY	1802.04	25ug	Crude
YLNNTLFLNGYPTS	1766.95	25ug	Crude
TLFLNGYPTSGSTY	1683.82	25ug	Crude
NGYPTSGSTYRNMA	1681.79	25ug	Crude
PTSGSTYRNMAKGS	1569.75	25ug	Crude
STYRNMAKGSVLLS	1639.92	25ug	Crude
NMAKGSVLLSRLWF	1735.11	25ug	Crude
KGSVLLSRLWFKPPF	1775.15	25ug	Crude
LLSRLWFKPPFLSDF	1866.22	25ug	Crude
LWFKPPFLSDFINGI	1794.11	25ug	Crude
PPFLSDFINGIFAKV	1664.95	25ug	Crude
SDFINGIFAKVKNTK	1681.94	25ug	Crude
NGIFAKVKNTKVIKD	1674.99	25ug	Crude
AKVKNTKVIKDRVMY	1793.19	25ug	Crude
NTKVIKDRVMYSEFP	1827.12	25ug	Crude
IKDRVMYSEFPAITI	1783.11	25ug	Crude
VMYSEFPAITIGSTF	1662.91	25ug	Crude
EFPAITIGSTFVNTS	1583.74	25ug	Crude
ITIGSTFVNTSYSVV	1587.78	25ug	Crude
STFVNTSYSVVVQPR	1683.87	25ug	Crude
NTSYSVVVQPRTINS	1664.82	25ug	Crude
SVVVQPRTINSTQDG	1600.74	25ug	Crude
QPRTINSTQDGNKL	1686.79	25ug	Crude
INSTQDGNKLQGLL	1615.75	25ug	Crude
QDGNKLQGLLEVS	1614.76	25ug	Crude
NKLQGLLEVSVCQYN	1707.95	25ug	Crude
GLLEVSVCQYNMCEY	1751.02	25ug	Crude
VSVCQYNMCEYPQTI	1778.04	25ug	Crude
QYNMCEYPQTIHPN	1841.06	25ug	Crude
CEYPQTIHPNLGNH	1725.91	25ug	Crude
QTIHPNLGNHRKEL	1759.99	25ug	Crude
HPNLGNHRKELWHL	1866.06	25ug	Crude
GNHRKELWHLDTGV	1760.96	25ug	Crude
KELWHLDTGVVSLY	1763.03	25ug	Crude
HLDTGVVSLYKRN	1752.01	25ug	Crude
GVVSLYKRNFTYDV	1764.02	25ug	Crude
CLYKRNFTYDVNADY	1885.07	25ug	Crude
RNFTYDVNADYLYFH	1938.07	25ug	Crude
YDVNADYLYFHFYQE	1987.09	25ug	Crude
ADYLYFHFYQEGGTF	1857.98	25ug	Crude
YFHFYQEGGTFYAYF	1940.08	25ug	Crude

YQEGGTFYAYFTDTG	1719.77	25ug	Crude
GTFYAYFTDTGVVTK	1669.84	25ug	Crude
AYFTDTGVVTKFLFN	1722.94	25ug	Crude
DTGVVTKFLFNVYLG	1672.93	25ug	Crude
VTKFLFNVYLGMAALS	1703.06	25ug	Crude
LFNVYLGMAALSHYYV	1790.10	25ug	Crude
YLGMAALSHYYVMPLT	1759.11	25ug	Crude
ALSHYYVMPLTCNSK	1727.02	25ug	Crude
YYVMPLTCNSKLTLE	1775.10	25ug	Crude
PLTCNSKLTLEYWVT	1768.05	25ug	Crude
NSKLTLEYWVTPLTS	1751.98	25ug	Crude
TLEYWVTPLTSRQYL	1870.12	25ug	Crude
WVTPLTSRQYLLAFN	1809.08	25ug	Crude
LTSRQYLLAFNQDGI	1738.95	25ug	Crude
QYLLAFNQDGIIFNA	1726.93	25ug	Crude
AFNQDGIIFNAEDCM	1687.86	25ug	Crude
DGIIFNAEDCMSDFM	1707.91	25ug	Crude
FNAEDCMSDFMSEIK	1766.98	25ug	Crude
DCMSDFMSEIKCKTQ	1766.06	25ug	Crude
DFMSEIKCKTQSIAP	1697.98	25ug	Crude
EIKCKTQSIAPPTGV	1571.84	25ug	Crude
KTQSIAPPTGVYELN	1617.81	25ug	Crude
IAPPTGVYELNGYTV	1593.78	25ug	Crude
TGVYELNGYTVQPIA	1624.80	25ug	Crude
ELNGYTVQPIADVYR	1737.91	25ug	Crude
YTVQPIADVYRRKPN	1820.07	25ug	Crude
PIADVYRRKPNLPC	1756.05	25ug	Crude
VYRRKPNLPCNIEA	1787.06	25ug	Crude
KPNLPCNIEAWLND	1740.94	25ug	Crude
PNCNIEAWLNDKSV	1699.89	25ug	Crude
IEAWLNDKSVPSPLN	1682.88	25ug	Crude
LNDKSVPSPLNWERK	1783.00	25ug	Crude
SVPSPLNWERKTFSN	1761.94	25ug	Crude
PLNWERKTFSNCNFN	1870.06	25ug	Crude
ERKTFSNCNFMSSL	1777.98	25ug	Crude
FSNCNFMSSLMSFI	1742.01	25ug	Crude
NFMSSLMSFIQADS	1691.89	25ug	Crude
SSLMSFIQADSFTCN	1650.84	25ug	Crude
SFIQADSFTCNNIDA	1645.75	25ug	Crude
ADSFTCNNIDAAKIY	1645.80	25ug	Crude
TCNNIDAAKIYGMCF	1663.94	25ug	Crude
IDAAKIYGMCFSSIT	1619.91	25ug	Crude
KIYGMCFSSITIDKF	1753.10	25ug	Crude
MCFSITIDKFAIPN	1687.00	25ug	Crude
SITIDKFAIPNGRKV	1658.95	25ug	Crude
DKFAIPNGRKVDLQL	1713.98	25ug	Crude
IPNGRKVDLQLGNLG	1593.83	25ug	Crude
RKVDLQLGNLGLYS	1703.94	25ug	Crude

LQLGNLGYLQSFNYR	1786.00	25ug	Crude
NLGYLQSFNYRIDTT	1804.96	25ug	Crude
LQSFNYRIDTTATSC	1719.88	25ug	Crude
NYRIDTTATSCQLYY	1811.97	25ug	Crude
DTTATSCQLYYNLPA	1660.81	25ug	Crude
TSCQLYYNLPAANVS	1643.82	25ug	Crude
LYYNLPAANVSVSFRF	1713.94	25ug	Crude
LPAANVSVSFRFNPST	1559.73	25ug	Crude
NVSVSFRFNPSTWNKR	1791.97	25ug	Crude
SRFNPSTWNKRFGFI	1857.09	25ug	Crude
PSTWNKRFGFIEDSV	1782.96	25ug	Crude
NKRFGFIEDSVFKPR	1840.10	25ug	Crude
GFIEDSVFKPRPAGV	1618.84	25ug	Crude
DSVFKPRPAGVLTNH	1637.84	25ug	Crude
KPRPAGVLTNHADVY	1665.90	25ug	Crude
AGVLTNHADVYAQHC	1626.80	25ug	Crude
TNHADVYAQHCFKAP	1729.92	25ug	Crude
VVYAQHCFKAPKNFC	1755.08	25ug	Crude
QHCFKAPKNFCPCKL	1764.16	25ug	Crude
KAPKNFCPCKLNGSC	1609.94	25ug	Crude
NFCPCKLNGSCVSGG	1485.72	25ug	Crude
CKLNGSCVSGGPGKN	1420.62	25ug	Crude
GSCVSGGPGKNNIG	1303.41	25ug	Crude
GSGPGKNNIGTCPA	1329.45	25ug	Crude
GKNNIGTCPAGTNY	1466.58	25ug	Crude
GIGTCPAGTNYLTCD	1485.65	25ug	Crude
CPAGTNYLTCDNLCT	1588.79	25ug	Crude
TNYLTCDNLCTPDPI	1682.88	25ug	Crude
TCDNLCTPDPIITFTG	1597.77	25ug	Crude
LCTPDPIITFTGTYKC	1659.93	25ug	Crude
DPITFTGTYKCPQTK	1699.93	25ug	Crude
FTGTYKCPQTKSLVG	1629.88	25ug	Crude
YKCPQTKSLVGIGEH	1659.91	25ug	Crude
QTKSLVGIGEHCSGL	1528.74	25ug	Crude
LVGIGEHCSGLAVKS	1469.71	25ug	Crude
GEHCSGLAVKSDYCG	1525.67	25ug	Crude
SGLAVKSDYCGGNSC	1460.60	25ug	Crude
VKSDYCGGNSCTCRP	1589.78	25ug	Crude
YCGGNSCTCRPQAF	1619.85	25ug	Crude
NSCTCRPQAFLGWSA	1640.85	25ug	Crude
CRPQAFLGWSADSCL	1653.89	25ug	Crude
AFLGWSADSCLQGDK	1597.75	25ug	Crude
WSADSCLQGDKCNIF	1686.87	25ug	Crude
SCLQGDKCNIFANFI	1672.93	25ug	Crude
GDKCNIFANFILHDV	1705.94	25ug	Crude
NIFANFILHDVNSGL	1673.87	25ug	Crude
NFILHDVNSGLTCST	1620.79	25ug	Crude
HDVNSGLTCSTDLQK	1617.74	25ug	Crude

SGLTCSTDLQKANTD	1553.66	25ug	Crude
CSTDLQKANTDIILG	1591.79	25ug	Crude
LQKANTDIILGVCVN	1600.89	25ug	Crude
NTDIILGVCVNYDLY	1714.94	25ug	Crude
ILGVCVNYDLYGILG	1611.91	25ug	Crude
CVNYDLYGILGQGIF	1674.92	25ug	Crude
DLYGILGQGIFVEVN	1636.85	25ug	Crude
ILGQGIFVEVNATYY	1686.91	25ug	Crude
GIFVEVNATYYNSWQ	1790.93	25ug	Crude
EVNATYYNSWQNLLY	1878.01	25ug	Crude
TYNSWQNLLYDSNG	1837.90	25ug	Crude
SWQNLLYDSNGNLYG	1743.83	25ug	Crude
LLYDSNGNLYGFRDY	1809.94	25ug	Crude
SNGNLYGFRDYIINR	1801.96	25ug	Crude
LYGFRDYIINRTFMI	1922.26	25ug	Crude
RDYIINRTFMIRSCY	1951.29	25ug	Crude
INRTFMIRSCYSGRV	1803.13	25ug	Crude
FMIRSCYSGRVSAAF	1694.98	25ug	Crude
Subpool 2			
Sequence	MW	Quantity	Purity
GYQELVIKTSHDD	1504.60	25ug	Crude
SCYSGRVSAAFHANS	1556.67	25ug	Crude
GRVSAAFHANSSEPA	1500.58	25ug	Crude
AAFHANSSEPALLFR	1630.81	25ug	Crude
ANSSEPALLFRNIKC	1662.92	25ug	Crude
EPALLFRNIKCNYVF	1827.16	25ug	Crude
LFRNIKCNYVFNNLS	1845.14	25ug	Crude
IKCNYVFNNLSLRQL	1813.09	25ug	Crude
YVFNNLSLRQLQPIN	1807.02	25ug	Crude
NSLRQLQPINYFDS	1795.95	25ug	Crude
RQLQPINYFDSYLG	1817.04	25ug	Crude
PINYFDSYLGCVVNA	1674.88	25ug	Crude
FDSYLGCVVNAYNST	1652.79	25ug	Crude
LGCVVNAYNSTAISV	1510.72	25ug	Crude
VNAYNSTAISVQTC	1585.70	25ug	Crude
NSTAISVQTCDLTVG	1508.66	25ug	Crude
ISVQTCDLTVGSGYC	1545.74	25ug	Crude
TCDLTVGSGYCVDYS	1582.72	25ug	Crude
TVGSGYCVDYSKNRR	1704.87	25ug	Crude
GYCVDYSKNRRSRGA	1731.90	25ug	Crude
DYSKNRRSRGAITTG	1681.82	25ug	Crude
NRRSRGAITTYRFT	1755.94	25ug	Crude
RGAITTYRFTNFEP	1729.90	25ug	Crude
TTYRFTNFEPFTVN	1793.94	25ug	Crude
RFTNFEPFTVNSVND	1786.90	25ug	Crude
FEPFTVNSVNSLEP	1694.80	25ug	Crude
TVNSVNSLEPVGGL	1500.61	25ug	Crude
VNSLEPVGGLYEIQ	1632.77	25ug	Crude

LEPVGGLYEIQIPSE	1643.84	25ug	Crude
GGLYEIQIPSEFTIG	1623.81	25ug	Crude
EIQIPSEFTIGNMVE	1706.92	25ug	Crude
PSEFTIGNMVEFIQT	1712.93	25ug	Crude
TIGNMVEFIQTSSPK	1651.89	25ug	Crude
MVEFIQTSSPKVTID	1694.95	25ug	Crude
IQTSSPKVTIDCAAF	1580.81	25ug	Crude
SPKVTIDCAAFVCGD	1525.75	25ug	Crude
TIDCAAFVCGDYAAC	1522.73	25ug	Crude
AAFVCGDYAACKSQL	1546.77	25ug	Crude
CGDYAACKSQLVEYG	1606.78	25ug	Crude
AACKSQLVEYGSFCD	1620.81	25ug	Crude
SQLVEYGSFCDNINA	1659.78	25ug	Crude
EYGSFCDNINAILTE	1688.82	25ug	Crude
FCDNINAILTEVNEL	1707.91	25ug	Crude
INAILTEVNELDDTT	1658.85	25ug	Crude
LTEVNELDDTTQLQV	1715.90	25ug	Crude
NELDDTTQLQVANSL	1658.81	25ug	Crude
DDTTQLQVANSLMNGV	1590.76	25ug	Crude
LQVANSLMNGVTLST	1547.78	25ug	Crude
NSLMNGVTLSTKLKD	1620.87	25ug	Crude
NGVTLSTKLKDG VNF	1592.80	25ug	Crude
LSTKLKDG VNFVDD	1664.82	25ug	Crude
LKDG VNFVDDINFS	1696.82	25ug	Crude
VNFVDDINFSPVLG	1649.81	25ug	Crude
VDDINFSPVLGCLGS	1535.72	25ug	Crude
NFSPVLGCLGSECSK	1540.77	25ug	Crude
VLGCLGSECSKASSR	1496.72	25ug	Crude
LGSECSKASSRSAIE	1524.66	25ug	Crude
CSKASSRSAIEDLLF	1626.84	25ug	Crude
SSRSAIEDLLFDKVK	1707.93	25ug	Crude
AIEDLLFDKVKLSDV	1704.97	25ug	Crude
LLFDKVKLSDVGFVE	1709.00	25ug	Crude
KVKLSDVGFVEAYNN	1682.88	25ug	Crude
SDVGFVEAYNNCTGG	1532.59	25ug	Crude
FVEAYNNCTGGAEIR	1643.78	25ug	Crude
YNNCTGGAEIRDLIC	1641.83	25ug	Crude
TGGAEIRDLICVQSY	1624.82	25ug	Crude
EIRDLICVQSYKGIK	1765.09	25ug	Crude
LICVQSYKGIKVLPP	1658.07	25ug	Crude
QSYKGIKVLPLLSE	1671.98	25ug	Crude
GIKVLPLLSENQIS	1607.90	25ug	Crude
LPPLLSENQISGYTL	1644.87	25ug	Crude
LSENQISGYTLAATS	1554.66	25ug	Crude
QISGYTLAATSASLF	1529.70	25ug	Crude
YTLAATSASLFPPWT	1625.83	25ug	Crude
ATSASLFPPWTAAG	1447.60	25ug	Crude
SLFPPWTAAGVPFY	1623.85	25ug	Crude

PWTAAGVPFYLNQ	1633.85	25ug	Crude
AAGVPFYLNQYRIN	1724.96	25ug	Crude
PFYLNQYRINGLGV	1753.02	25ug	Crude
NVQYRINGLGVTMDV	1678.92	25ug	Crude
RINGLGVTMDVLSQN	1616.85	25ug	Crude
LGVTMDVLSQNQKLI	1658.97	25ug	Crude
MDVLSQNQKLIANAF	1691.95	25ug	Crude
SQNQKLIANAFNNAL	1645.82	25ug	Crude
KLIANAFNNALYAIQ	1663.92	25ug	Crude
NAFNNALYAIQEGFD	1686.78	25ug	Crude
NALYAIQEGFDATNS	1613.69	25ug	Crude
AIQEGFDATNSALVK	1563.71	25ug	Crude
GFDATNSALVKIQAV	1533.73	25ug	Crude
TNSALVKIQAVVNAN	1541.76	25ug	Crude
LVKIQAVVNANAEAL	1552.82	25ug	Crude
QAVVNANAEALNNLL	1553.72	25ug	Crude
NANAEALNNLLQQLS	1612.75	25ug	Crude
EALNNLLQQLSNRFG	1716.90	25ug	Crude
NLLQQLSNRFGAISA	1631.84	25ug	Crude
QLSNRFGAISASLQE	1620.77	25ug	Crude
RFGAISASLQEILSR	1647.88	25ug	Crude
ISASLQEILSRLDAL	1628.87	25ug	Crude
LQEILSRLDALEAEA	1670.87	25ug	Crude
LSRLDALEAEAQIDR	1699.87	25ug	Crude
DALEAEAQIDRLING	1627.76	25ug	Crude
AEAQIDRLINGRLTA	1640.85	25ug	Crude
IDRLINGRLTALNAY	1702.96	25ug	Crude
INGRLTALNAYVSQQ	1647.84	25ug	Crude
LTALNAYVSQQLSDS	1609.74	25ug	Crude
NAYVSQQLSDSLTK	1652.81	25ug	Crude
SQQLSDSLTKFSAA	1581.73	25ug	Crude
SDSLTKFSAAQAME	1584.75	25ug	Crude
LVKFSAAQAMEKVNE	1664.93	25ug	Crude
SAAQAMEKVNECVKS	1594.82	25ug	Crude
AMEKVNECVKSQSSR	1695.92	25ug	Crude
VNECVKSQSSRINFC	1713.94	25ug	Crude
VKSQSSRINFCGNGN	1610.76	25ug	Crude
SSRINFCGNGNHIIS	1618.78	25ug	Crude
NFCGNGNHIISLVQN	1629.80	25ug	Crude
NGNHIISLVQNAPYG	1596.75	25ug	Crude
IISLVQNAPYGLYFI	1711.02	25ug	Crude
VQNAPYGLYFIHFSY	1819.03	25ug	Crude
PYGLYFIHFSYVPTK	1832.11	25ug	Crude
YFIHFSYVPTKYVTA	1836.10	25ug	Crude
FSYVPTKYVTARVSP	1714.97	25ug	Crude
PTKYVTARVSPGLCI	1604.92	25ug	Crude
VTARVSPGLCIAGDR	1514.76	25ug	Crude
VSPGLCIAGDRGIAP	1425.66	25ug	Crude

LCIAGDRGIAPKSGY	1520.76	25ug	Crude
GDRGIAPKSGYFVNV	1579.76	25ug	Crude
IAPKSGYFVNVNNTW	1709.91	25ug	Crude
SGYFVNVNNTWMYTG	1752.91	25ug	Crude
VNVNNTWMYTGSGYY	1768.91	25ug	Crude
NTWMYTGSGYYYPEP	1828.96	25ug	Crude
YTGSYYYPEPITEN	1753.82	25ug	Crude
GYYYPEPITENNVVV	1756.91	25ug	Crude
PEPITENNVVVMSTC	1632.86	25ug	Crude
TENNVVVMSTCAVNY	1643.84	25ug	Crude
VVVMSTCAVNYTKAP	1582.89	25ug	Crude
STCAVNYTKAPYVML	1660.96	25ug	Crude
VNYTKAPYVMLNTSI	1714.00	25ug	Crude
KAPYVMLNTSIPNLP	1657.98	25ug	Crude
VMLNTSIPNLPDFKE	1717.99	25ug	Crude
TSIPNLPDFKEELDQ	1745.89	25ug	Crude
NLPDFKEELDQWFKN	1923.09	25ug	Crude
FKEELDQWFKNQTSV	1899.07	25ug	Crude
LDQWFKNQTSVAPDL	1761.94	25ug	Crude
FKNQTSVAPDLSLDY	1697.85	25ug	Crude
TSVAPDLSLDYINVT	1607.76	25ug	Crude
PDLSLDYINVTFLDL	1737.95	25ug	Crude
LDYINVTFLDLQVEM	1813.08	25ug	Crude
NVTFLDLQVEMNRLQ	1820.08	25ug	Crude
LDLQVEMNRLQEAIK	1800.09	25ug	Crude
VEMNRLQEAIKVLNQ	1785.08	25ug	Crude
RLQEAIKVLNQSYIN	1789.05	25ug	Crude
AIKVLNQSYINLKDI	1732.04	25ug	Crude
LNQSYINLKDIGTYE	1770.94	25ug	Crude
YINLKDIGTYEYVVK	1882.13	25ug	Crude
KDIGTYEYVVKWPWY	2011.24	25ug	Crude
TYEYVVKWPWYVWLL	2109.43	25ug	Crude
YVVKWPWYVWLLICLA	1953.40	25ug	Crude
PWYVWLLICLAGVAM	1735.17	25ug	Crude
WLLICLAGVAMLVLL	1628.15	25ug	Crude
CLAGVAMLVLLFFIC	1613.11	25ug	Crude
VAMLVLLFFICCCTG	1633.12	25ug	Crude
VLLFFICCCTGCGTS	1566.94	25ug	Crude
FICCCTGCGTSCFKK	1600.98	25ug	Crude
CTGCGTSCFKKCGGC	1454.75	25ug	Crude
GTSCFKKCGGCCDDY	1586.80	25ug	Crude
FKKCGGCCDDYTYGQ	1687.88	25ug	Crude
GGCCDDYTYGQELVI	1635.78	25ug	Crude
DDYTYGQELVIKTSH	1768.88	25ug	Crude