

CERTIFICATE OF ANALYSIS

Product Name	SARS-CoV-2 Spike Glycoprotein BA.2-Omicron
Cat No.	RP30221
Lot No	E1387622I
Sequence	See appendix for details
Modification	N/A
Size	Subpool 1: 3.95mg and Subpool 2: 3.925mg
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.

Certified by: *Tingting Cai* Date: 09/07/2022

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Appendix:

Subpool 1			
Sequence	MW	Quantity	Purity
MFVFLVLLPLVSSQC	1696.13	25ug	Crude
LVLLPLVSSQCVNLI	1611.01	25ug	Crude
PLVSSQCVNLITRTQ	1658.93	25ug	Crude

SQCVNLITRTQSYTN	1727.90	25ug	Crude
NLITRTQSYTNSFTR	1801.96	25ug	Crude
RTQSYTNSFTRGVYY	1842.97	25ug	Crude
YTNSFTRGVYYDPKV	1809.98	25ug	Crude
FTRGVYYDPKVFRSS	1822.04	25ug	Crude
VYYDPKVFRSSVLHS	1797.03	25ug	Crude
DKVFRSSVLHSTQDL	1731.91	25ug	Crude
RSSVLHSTQDLFLPF	1746.97	25ug	Crude
LHSTQDLFLPFFSNV	1764.98	25ug	Crude
QDLFLPFFSNVTWFH	1898.13	25ug	Crude
LPFFSNVTWFHAIHV	1815.09	25ug	Crude
SNVTWFHAIHVSGTN	1669.80	25ug	Crude
WFHAIHVSGTNGTKR	1710.90	25ug	Crude
IHVSGTNGTKRFDNP	1642.78	25ug	Crude
GTNGTKRFDNPVLPF	1662.85	25ug	Crude
TKRFDNPVLPFNDGV	1718.92	25ug	Crude
DNPVLPFNDGVYFAS	1654.78	25ug	Crude
LPFNDGVYFASTEKS	1674.81	25ug	Crude
DGVYFASTEKSNIIR	1699.87	25ug	Crude
FASTEKSNIIRGWIF	1769.02	25ug	Crude
EKSNIIRGWIFGTTL	1735.00	25ug	Crude
IIRGWIFGTTLDSKT	1707.98	25ug	Crude
WIFGTTLDSKTQSLL	1709.94	25ug	Crude
TTLDSKTQSLLIVNN	1646.85	25ug	Crude
SKTQSLLIVNNATNV	1601.81	25ug	Crude
SLIVNNATNVVIKV	1596.92	25ug	Crude
VNNATNVVIKVCEFQ	1677.93	25ug	Crude
TNVVIKVCEFQFCND	1759.02	25ug	Crude
IKVCEFQFCNDPFLD	1818.09	25ug	Crude
EFQFCNDPFLDVYYH	1937.10	25ug	Crude
CNDPFLDVYYHKNNK	1870.06	25ug	Crude
FLDVYYHKNNKSWME	1974.21	25ug	Crude
YYHKNNKSWMESEFR	2019.21	25ug	Crude
NNKSWMESEFRVYSS	1864.01	25ug	Crude
WMESEFRVYSSANNC	1822.98	25ug	Crude
EFRVYSSANNCTFEY	1829.95	25ug	Crude
YSSANNCTFEYVSQP	1709.80	25ug	Crude
NNCTFEYVSQPFLMD	1808.01	25ug	Crude
FEYVSQPFLMDLEGK	1803.05	25ug	Crude
SQPFLMDLEGKQGNF	1710.91	25ug	Crude
LMDLEGKQGNFKNLR	1763.04	25ug	Crude
EGKQGNFKNLREFVF	1813.03	25ug	Crude

GNFKNLREFVFKNID	1841.08	25ug	Crude
NLREFVFKNIDGYFK	1890.15	25ug	Crude
FVFKNIDGYFKIYSK	1869.18	25ug	Crude
NIDGYFKIYSKHTPI	1796.04	25ug	Crude
YFKIYSKHTPINLGR	1837.14	25ug	Crude
YSKHTPINLGRDLPQ	1738.95	25ug	Crude
TPINLGRDLPQGFS	1585.77	25ug	Crude
LGRDLPQGFSALEPL	1612.83	25ug	Crude
LPQGFSALEPLVDLP	1595.84	25ug	Crude
FSALEPLVDLPIGIN	1597.86	25ug	Crude
EPLVDLPIGINITRF	1696.99	25ug	Crude
DLPIGINITRFQTL	1714.02	25ug	Crude
GINITRFQTLALHR	1753.07	25ug	Crude
TRFQTLALHRSYLT	1820.11	25ug	Crude
TLLALHRSYLTGDS	1643.85	25ug	Crude
LHRSYLTGDSSSGW	1662.77	25ug	Crude
YLTPGDSSSGWTAGA	1469.52	25ug	Crude
GDSSSGWTAGAAAY	1463.47	25ug	Crude
SGWTAGAAAYVGYL	1549.69	25ug	Crude
AGAAAYVGYLQPRT	1600.78	25ug	Crude
AYYVGYLQPRTFLK	1832.16	25ug	Crude
GYLQPRTFLKYNE	1856.09	25ug	Crude
PRTFLKYNEGTIT	1767.00	25ug	Crude
LLKYNEGTITDAVD	1665.80	25ug	Crude
NENGTITDAVDCAL	1550.61	25ug	Crude
TITDAVDCALDPL	1562.70	25ug	Crude
AVDCALDPLSETKCT	1565.77	25ug	Crude
ALDPLSETKCTLKS	1652.92	25ug	Crude
LSETKCTLKSFTVE	1714.00	25ug	Crude
KCTLKSFTVEKGIY	1745.06	25ug	Crude
KSFTVEKGIYQTSN	1748.94	25ug	Crude
VEKGIYQTSNFRVQ	1765.97	25ug	Crude
IYQTSNFRVQPTE	1782.96	25ug	Crude
SNFRVQPTEIVRFP	1777.00	25ug	Crude
VQPTEIVRFPNITN	1714.92	25ug	Crude
ESIVRFPNITNLCP	1750.04	25ug	Crude
RFPNITNLCPFDEV	1812.06	25ug	Crude
ITNLCPFDEVFNATR	1739.95	25ug	Crude
CPFDEVFNATRFAS	1702.89	25ug	Crude
EVFNATRFASVYAW	1774.94	25ug	Crude
ATRFASVYAWNRKR	1839.12	25ug	Crude
ASVYAWNRKRISNC	1767.03	25ug	Crude

AWNKRISNCVADYS	1782.99	25ug	Crude
KRISNCVADYSVLYN	1744.97	25ug	Crude
NCVADYSVLYNFAPF	1722.92	25ug	Crude
DYSVLYNFAPFFAFK	1829.07	25ug	Crude
LYNFAPFFAFKCYGV	1787.10	25ug	Crude
APFFAFKCYGVSPK	1662.96	25ug	Crude
AFKCYGVSPKLNLDL	1655.92	25ug	Crude
YGVSPKLNLDLCTFN	1671.88	25ug	Crude
PTKLNLDLCTFNVDYAD	1713.91	25ug	Crude
NLDLCTFNVDYADSFVI	1720.90	25ug	Crude
FTNVYADSFVIRGNE	1731.87	25ug	Crude
YADSFVIRGNEVSQI	1697.85	25ug	Crude
FVIRGNEVSQIAPGQ	1614.81	25ug	Crude
GNEVSQIAPGQTGNI	1484.57	25ug	Crude
SQIAPGQTGNIADYN	1548.62	25ug	Crude
PGQTGNIADYNYKLP	1650.79	25ug	Crude
GNIADYNYKLPDDFT	1745.85	25ug	Crude
DYNYKLPDDFTGCVI	1762.94	25ug	Crude
KLPDDFTGCVIAWNS	1665.87	25ug	Crude
DFTGCVIAWNSNKLD	1682.86	25ug	Crude
CVIAWNSNKLDKVG	1633.88	25ug	Crude
WNSNKLDKVGGNYN	1695.80	25ug	Crude
KLDSKVGGNYNLYR	1789.99	25ug	Crude
KVGGNYNLYRFLRK	1891.19	25ug	Crude
NYNLYRFLRKS NLK	1992.29	25ug	Crude
LYRFLRKS NLKPFER	1967.33	25ug	Crude
FRKS NLKPFERDIST	1838.08	25ug	Crude
NLKPFERDISTEIYQ	1853.05	25ug	Crude
FERDISTEIYQAGNK	1770.90	25ug	Crude
ISTEIYQAGNKPCNG	1594.75	25ug	Crude
IYQAGNKPCNGVAGF	1538.73	25ug	Crude
GNKPCNGVAGFNCYF	1590.79	25ug	Crude
CNGVAGFNCYFPLRS	1647.88	25ug	Crude
AGFNCYFPLRSYGFR	1798.04	25ug	Crude
CYFPLRSYGFRPTYG	1827.08	25ug	Crude
LSYGFPTYGVGHQ	1737.92	25ug	Crude
GFRPTYGVGHQPYRV	1733.93	25ug	Crude
TYGVGHQPYRVVLS	1674.91	25ug	Crude
GHQPYRVVLSFELL	1757.05	25ug	Crude
YRVVLSFELLHAPA	1714.02	25ug	Crude
VLSFELLHAPATVCG	1556.83	25ug	Crude
ELLHAPATVCGPKKS	1550.83	25ug	Crude

APATVCGPKKSTNLV	1485.76	25ug	Crude
VCGPKKSTNLVKNKC	1618.97	25ug	Crude
KKSTNLVKNKCVNFN	1737.04	25ug	Crude
NLVKNKCVNFNFNGL	1724.00	25ug	Crude
NKCVNFNFNGLTGTG	1585.75	25ug	Crude
NFNFNGLTGTGVLTE	1583.70	25ug	Crude
NGLTGTGVLTESNKK	1518.68	25ug	Crude
GTGVLTESNKKFLPF	1637.88	25ug	Crude
LTESNKKFLPFQQFG	1784.03	25ug	Crude
NKKFLPFQQFGRDIA	1809.08	25ug	Crude
LPFQQFGRDIADTTD	1723.85	25ug	Crude
QFGRDIADTTDAVRD	1679.75	25ug	Crude
DIADTTDAVRDPQTL	1630.72	25ug	Crude
TTDAVRDPQTLLEILD	1686.82	25ug	Crude
VRDPQTLLEILDITPC	1712.97	25ug	Crude
QTLLEILDITPCFSGG	1593.80	25ug	Crude
ILDITPCFSGGVSVI	1520.80	25ug	Crude
TPCSFGGVSVITPGT	1422.61	25ug	Crude
FGGVSVITPGTNTSN	1450.56	25ug	Crude
SVITPGTNTSNQVAV	1487.62	25ug	Crude
PGTNTSNQVAVLYQG	1548.66	25ug	Crude
TSNQVAVLYQGVNCT	1596.77	25ug	Crude
VAVLYQGVNCTEVPV	1590.85	25ug	Crude
YQGVNCTEVPVAIHA	1600.80	25ug	Crude
NCTEVPVAIHADQLT	1610.80	25ug	Crude
VPVAIHADQLTPTWR	1703.95	25ug	Crude
IHADQLTPTWRVYST	1787.98	25ug	Crude
QLTPTWRVYSTGSNV	1708.88	25ug	Crude
TWRVYSTGSNVFQTR	1801.96	25ug	Crude
Subpool 2			
Sequence	MW	Quantity	Purity
YSTGSNVFQTRAGCL	1603.76	25ug	Crude
SNVFQTRAGCLIGAE	1565.76	25ug	Crude
QTRAGCLIGAEYVNN	1608.78	25ug	Crude
GCLIGAEYVNNSEYEC	1634.79	25ug	Crude
GAEYVNNSEYECDIPI	1686.80	25ug	Crude
VNNSEYECDIPIGAGI	1564.72	25ug	Crude
YECDIPIGAGICASY	1574.78	25ug	Crude
IPIGAGICASYQTQT	1522.73	25ug	Crude
AGICASYQTQTKSHR	1650.82	25ug	Crude
ASYQTQTKSHRRARS	1776.92	25ug	Crude
TQTKSHRRARVASQ	1712.88	25ug	Crude

SHRRARSVASQSIIA	1638.84	25ug	Crude
ARSVASQSIIAYTMS	1584.80	25ug	Crude
ASQSIIAYTMSLGAE	1541.73	25ug	Crude
IIAYTMSLGAENSVA	1539.76	25ug	Crude
TMSLGAENSVAYSNN	1557.65	25ug	Crude
GAENSVAYSNNNSIAI	1509.58	25ug	Crude
SVAYSNNNSIAIPTNF	1597.73	25ug	Crude
NNNSIAIPTNFTISV	1577.74	25ug	Crude
IAIPTNFTISVTTEI	1619.86	25ug	Crude
TNFTISVTTEILPVS	1621.83	25ug	Crude
ISVTTEILPVSMTKT	1619.93	25ug	Crude
TEILPVSMTKTSVDC	1623.90	25ug	Crude
PVSMTKTSVDCTMYI	1675.99	25ug	Crude
TKTSVDCTMYICGDS	1623.83	25ug	Crude
VDCTMYICGDSTECS	1626.81	25ug	Crude
MYICGDSTECSNLLL	1661.92	25ug	Crude
GDSTECSNLLLQYGS	1586.68	25ug	Crude
ECSNLLLQYGSFCTQ	1705.92	25ug	Crude
LLLQYGSFCTQLKRA	1741.07	25ug	Crude
YGSFCTQLKRALTGI	1657.94	25ug	Crude
CTQLKRALTGIAVEQ	1630.92	25ug	Crude
KRALTGIAVEQDKNT	1643.85	25ug	Crude
TGIAVEQDKNTQEVF	1678.80	25ug	Crude
VEQDKNTQEVFAQVK	1762.92	25ug	Crude
KNTQEVFAQVKQIYK	1824.09	25ug	Crude
EVFAQVKQIYKTPPI	1761.08	25ug	Crude
QVKQIYKTPPIKYFG	1810.15	25ug	Crude
IYKTPPIKYFGGFNF	1792.09	25ug	Crude
PPIKYFGGFNFSQIL	1728.01	25ug	Crude
YFGGFNFSQILPDPS	1688.84	25ug	Crude
FNFSQILPDPSKPSK	1704.93	25ug	Crude
QILPDPSKPSKRSFI	1713.00	25ug	Crude
DPSKPSKRSFIEDLL	1731.95	25ug	Crude
PSKRSFIEDLLFNKV	1793.08	25ug	Crude
SFIEDLLFNKVTLAD	1724.96	25ug	Crude
DLLFNKVTLADAGFI	1636.89	25ug	Crude
NKVTLADAGFIKQYG	1624.84	25ug	Crude
LADAGFIKQYGDCLG	1570.77	25ug	Crude
GFIKQYGDCLGDIAA	1570.77	25ug	Crude
QYGDCLGDIAARDLI	1622.81	25ug	Crude
CLGDIAARDLICAQK	1589.89	25ug	Crude
IAARDLICAQKFNGL	1632.93	25ug	Crude

DLICAQKFNGLTVLP	1631.94	25ug	Crude
AQKFNGLTVLPPLLT	1611.93	25ug	Crude
NGLTVLPPLLTDEMI	1625.93	25ug	Crude
VLPPLLTDEMIAQYT	1704.00	25ug	Crude
LLTDEMIAQYTSALL	1681.95	25ug	Crude
EMIAQYTSALLAGTI	1581.84	25ug	Crude
QYTSALLAGTITSGW	1568.73	25ug	Crude
ALLAGTITSGWTFGA	1465.66	25ug	Crude
GTITSGWTFGAGAAL	1409.55	25ug	Crude
SGWTFGAGAALQIPF	1522.71	25ug	Crude
FGAGAALQIPFAMQM	1552.87	25ug	Crude
AALQIPFAMQMAYRF	1758.12	25ug	Crude
IPFAMQMAYRFNGIG	1716.04	25ug	Crude
MQMAYRFNGIGVTQN	1729.99	25ug	Crude
YRFNGIGVTQNVLYE	1772.96	25ug	Crude
GIGVTQNVLYENQKL	1675.89	25ug	Crude
TQNVLYENQKLIANQ	1775.96	25ug	Crude
LYENQKLIANQFNSA	1752.93	25ug	Crude
QKLIANQFNSAIGKI	1644.92	25ug	Crude
ANQFNSAIGKIQDSL	1605.76	25ug	Crude
NSAIGKIQDLSSTA	1491.61	25ug	Crude
GKIQDLSSTASALG	1434.56	25ug	Crude
DSLSTASALGKLQD	1492.59	25ug	Crude
STASALGKLQDVVNH	1539.70	25ug	Crude
ALGKLQDVVNHNAQA	1577.75	25ug	Crude
LQDVVNHNAQALNTL	1649.81	25ug	Crude
VNHNAQALNTLVKQL	1662.90	25ug	Crude
AQALNTLVKQLSSKF	1647.92	25ug	Crude
NTLVKQLSSKFGAIS	1592.84	25ug	Crude
KQLSSKFGAISSVLN	1578.82	25ug	Crude
SKFGAISSVLNDILS	1550.76	25ug	Crude
AISSVLNDILSRLDK	1643.89	25ug	Crude
VLNDILSRLDKVEAE	1713.94	25ug	Crude
ILSRLDKVEAEVQID	1727.96	25ug	Crude
LDKVEAEVQIDRLIT	1741.99	25ug	Crude
EAEVQIDRLITGRLQ	1740.96	25ug	Crude
QIDRLITGRLQSLQT	1741.99	25ug	Crude
LITGRLQSLQTYVTQ	1720.97	25ug	Crude
RLQSLQTYVTQQLIR	1847.13	25ug	Crude
LQTYVTQQLIRAAEI	1747.01	25ug	Crude
VTQQLIRAAEIRASA	1626.86	25ug	Crude
LIRAAEIRASANLAA	1539.79	25ug	Crude

AEIRASANLAATKMS	1533.76	25ug	Crude
ASANLAATKMSECVL	1508.77	25ug	Crude
LAATKMSECVLGQSK	1565.86	25ug	Crude
KMSECVLGQSKRVDF	1727.02	25ug	Crude
CVLGQSKRVDFCGKG	1596.88	25ug	Crude
QSKRVDFCGKGYHLM	1769.07	25ug	Crude
VDFCGKGYHLSFPQ	1729.00	25ug	Crude
GKGYHLMSFPQSAPH	1656.87	25ug	Crude
HLMSFPQSAPHGVVF	1653.91	25ug	Crude
FPQSAPHGVVFLHVT	1635.87	25ug	Crude
APHGVVFLHVTVPA	1606.87	25ug	Crude
VVFLHVTVVPAQEKN	1744.01	25ug	Crude
HVTYVPAQEKNFTTA	1705.87	25ug	Crude
VPAQEKNFTTAPAIC	1589.82	25ug	Crude
EKNFTTAPAICHDGK	1631.82	25ug	Crude
TTAPAICHDGKAHFP	1565.76	25ug	Crude
AICHDGKAHFREGV	1636.84	25ug	Crude
DGKAHFREGVFVSN	1659.81	25ug	Crude
HFPREGVFVSNGTHW	1769.92	25ug	Crude
EGVFVSNGTHWFVTQ	1707.85	25ug	Crude
VSNGTHWFVTQRNFY	1856.01	25ug	Crude
THWFVTQRNFYEPQI	1966.17	25ug	Crude
VTQRNFYEPQIITTD	1824.99	25ug	Crude
NFYEPQIITTDNTFV	1801.95	25ug	Crude
PQIITTDNTFVSGNC	1609.76	25ug	Crude
TTDNTFVSGNCDVVI	1584.71	25ug	Crude
TFVSGNCDVIGIVN	1536.76	25ug	Crude
GNCDVIGIVNNTVY	1579.78	25ug	Crude
VVIGIVNNTVYDPLQ	1643.89	25ug	Crude
IVNNTVYDPLQPELD	1729.89	25ug	Crude
TVYDPLQPELDSFKE	1780.93	25ug	Crude
PLQPELDSFKEELDK	1787.97	25ug	Crude
ELDSFKEELDKYFKN	1905.07	25ug	Crude
FKEELDKYFKNHTSP	1883.07	25ug	Crude
LDKYFKNHTSPDVL	1791.96	25ug	Crude
FKNHTSPDVLGDIS	1644.75	25ug	Crude
TSPDVLGDISGINA	1473.55	25ug	Crude
VDLGDISGINASVVN	1472.60	25ug	Crude
DISGINASVVNIQKE	1586.75	25ug	Crude
INASVVNIQKEIDRL	1711.97	25ug	Crude
VVNIQKEIDRLNEVA	1739.98	25ug	Crude
QKEIDRLNEVAKNLN	1783.99	25ug	Crude

DRLNEVAKNLNESLI	1727.92	25ug	Crude
EVAKNLNESLIDLQE	1714.88	25ug	Crude
NLNESLIDLQELGKY	1748.94	25ug	Crude
SLIDLQELGKYEQYI	1812.03	25ug	Crude
LQELGKYEQYIKWPW	1981.26	25ug	Crude
GKYEQYIKWPWYIWL	2073.40	25ug	Crude
QYIKWPWYIWLGFIA	1984.35	25ug	Crude
WPWYIWLGFIAGLIA	1806.16	25ug	Crude
IWLGFIAGLIAIVMV	1616.07	25ug	Crude
FIAGLIAIVMVTIML	1605.11	25ug	Crude
LIAIVMVTIMLCCMT	1655.24	25ug	Crude
VMVTIMLCCMTSCCS	1625.13	25ug	Crude
IMLCCMTSCCSCLKG	1596.09	25ug	Crude
CMTSCCSCLKGCCSC	1531.94	25ug	Crude
CCSCLKGCCSCGSCC	1459.83	25ug	Crude
LKGCCSCGSCCKFDE	1582.87	25ug	Crude
CSCGSCCKFDEDDSE	1627.72	25ug	Crude
SCCKFDEDDSEPVLK	1714.88	25ug	Crude
FDEDDSEPVLKGVKL	1690.85	25ug	Crude
DSEPVLKGVKLHYT	1585.81	25ug	Crude