

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	SARS-CoV-2 Spike Glycoprotein B.1.1.529-Omicron
<b>Cat No.</b>	RP30121
<b>Lot No</b>	E2385822E
<b>Sequence</b>	See appendix for details
<b>Modification</b>	N/A
<b>Size</b>	Subpool 1: 3.95mg and Subpool 2: 3.925mg
<b>Storage</b>	-20°C
<b>Recommended Solvent*</b>	Dimethyl sulfoxide(Analytical grade)
<b>HPLC purity</b>	Crude
<b>Appearance</b>	White lyophilized powder
<b>Comments</b>	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: 06/10/2022

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**Appendix:**

Subpool 1			
Sequence	MW	Quantity	Purity
MFVFLVLLPLVSSQC	1696.13	25ug	Crude
LVLLPLVSSQCVNLT	1598.95	25ug	Crude
PLVSSQCVNLTRTQ	1646.87	25ug	Crude
SQC VNLTTRTQLPPA	1628.86	25ug	Crude
NLTRTQLPPAYTNS	1676.83	25ug	Crude
RTQLPPAYTNSFTRG	1708.88	25ug	Crude

PPAYTNSFTRGVVYYP	1732.90	25ug	Crude
TNSFTRGVVYYPDKVF	1793.98	25ug	Crude
TRGVVYYPDKVFRSSV	1773.99	25ug	Crude
YYPDKVFRSSVLHST	1799.00	25ug	Crude
KVFRSSVLHSTQDLF	1764.00	25ug	Crude
SSVLHSTQDLFLPFF	1737.96	25ug	Crude
HSTQDLFLPFFSNVT	1752.93	25ug	Crude
DLFLPFFSNVTWFHV	1869.13	25ug	Crude
PFFSNVTWFHVISGT	1738.95	25ug	Crude
NVTWFHVISGTNGTK	1660.84	25ug	Crude
FHVISGTNGTKRFDN	1692.84	25ug	Crude
SGTNGTKRFDNPVLP	1602.75	25ug	Crude
GTKRFDNPVLPFNDG	1676.84	25ug	Crude
FDNPVLPFNDGVYFA	1714.88	25ug	Crude
VLPFNDGVYFASIEK	1698.92	25ug	Crude
NDGVYFASIEKSNI	1669.84	25ug	Crude
YFASIEKSNIIRGWI	1797.07	25ug	Crude
IEKSNIIRGWIFGTT	1735.00	25ug	Crude
NIIRGWIFGTTLDSK	1720.97	25ug	Crude
GWIFGTTLDSKTQSL	1653.84	25ug	Crude
GTTLDSKTQSLLIVN	1589.79	25ug	Crude
DSKTQSLLIVNNATN	1617.76	25ug	Crude
QSLLIVNNATNVVIK	1625.92	25ug	Crude
IVNNATNVVIKVCEF	1662.96	25ug	Crude
ATNVVIKVCEFQFCN	1715.01	25ug	Crude
VIKVCEFQFCNDPFL	1802.13	25ug	Crude
CEFQFCNDPFLDHKN	1857.04	25ug	Crude
FCNDPFLDHKNKSW	1865.04	25ug	Crude
PFLDHKNKSWMESE	1862.04	25ug	Crude
HKNNKSWMESEFRVY	1955.17	25ug	Crude
KSWMESEFRVYSSAN	1820.98	25ug	Crude
ESEFRVYSSANNCTF	1753.85	25ug	Crude
RVYSSANNCTFEYVS	1739.87	25ug	Crude
SANNCTFEYVSPFL	1719.88	25ug	Crude
CTFEYVSPFLMDLE	1822.07	25ug	Crude
YVSPFLMDLEGKQG	1711.94	25ug	Crude
PFLMDLEGKQGNFKN	1737.98	25ug	Crude
DLEGKQGNFKNLREF	1794.97	25ug	Crude
KQGNFKNLREFVFKN	1869.14	25ug	Crude
FKNLREFVFKNIDGY	1890.15	25ug	Crude
REFVFKNIDGYFKIY	1939.23	25ug	Crude
FKNIDGYFKIYSKHT	1861.11	25ug	Crude
DGYFKIYSKHTPIIV	1781.07	25ug	Crude
KIYSKHTPIIVREPE	1810.11	25ug	Crude
KHTPIIVREPDLQP	1772.02	25ug	Crude
IIVREPDLQPQFSA	1670.87	25ug	Crude

EPEDLPQGFSALEPL	1641.78	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
TLLALHRSYLTPGDS	1643.85	25ug	Crude
LHRSYLTPGDSSSGW	1662.77	25ug	Crude
YLTPGDSSSGWTAGA	1469.52	25ug	Crude
GDSSSGWTAGAAAYY	1463.47	25ug	Crude
SGWTAGAAAYYVGYL	1549.69	25ug	Crude
AGAAAYYVGYLQPRT	1600.78	25ug	Crude
AYYVGYLQPRTFLLK	1832.16	25ug	Crude
GYLQPRTFLLKYNEN	1856.09	25ug	Crude
PRTFLLKYNENGTIT	1767.00	25ug	Crude
LLKYNENGTITDAVD	1665.80	25ug	Crude
NENGTITDAVDCALD	1550.61	25ug	Crude
TITDAVDCALDPLSE	1562.70	25ug	Crude
AVDCALDPLSETKCT	1565.77	25ug	Crude
ALDPLSETKCTLSF	1652.92	25ug	Crude
LSETKCTLSFTVEK	1714.00	25ug	Crude
KCTLSFTVEKGIYQ	1745.06	25ug	Crude
KSFTVEKGIYQTSNF	1748.94	25ug	Crude
VEKGIYQTSNFRVQP	1765.97	25ug	Crude
IYQTSNFRVQPTESE	1782.96	25ug	Crude
SNFRVQPTESEIVRFP	1777.00	25ug	Crude
VQPTESEIVRFPNITN	1714.92	25ug	Crude
ESIVRFPNITNLCPF	1750.04	25ug	Crude
RFPNITNLCPFDEVF	1812.06	25ug	Crude
ITNLCPFDEVFNATR	1739.95	25ug	Crude
CPFDEVFNATRFASV	1702.89	25ug	Crude
EVFNATRFASVYAWN	1774.94	25ug	Crude
ATRFASVYAWNRKRI	1839.12	25ug	Crude
ASVYAWNRKRISNCV	1767.03	25ug	Crude
AWNRKRISNCVADYS	1782.99	25ug	Crude
KRISNCVADYSVLYN	1744.97	25ug	Crude
NCVADYSVLYNLAPF	1688.91	25ug	Crude
DYSVLYNLAPFFTFK	1825.08	25ug	Crude
LYNLAPFFTFKCYGV	1783.11	25ug	Crude
APFFTFKCYGVSPK	1692.98	25ug	Crude
TFKCYGVSPKLNLD	1685.95	25ug	Crude
YGVSPKLNLDLCFTN	1671.88	25ug	Crude
PKLNLDLCFTNVYAD	1713.91	25ug	Crude
NLDLCFTNVYADSFVI	1720.90	25ug	Crude
FTNVYADSFVIRGDE	1732.85	25ug	Crude

YADSFVIRGDEVRQI	1767.94	25ug	Crude
FVIRGDEVRQIAPGQ	1684.90	25ug	Crude
GDEVRQIAPGQTGNI	1554.67	25ug	Crude
RQIAPGQTGNIADYN	1617.73	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
CVIAWNSNKLDSKVS	1663.90	25ug	Crude
WNSNKLDSKVSIGNYN	1725.82	25ug	Crude
KLDSKVSIGNYNYLYR	1820.02	25ug	Crude
KVSGNYNYLYRLFRK	1921.21	25ug	Crude
NYNYLYRLFRKSNLK	1992.29	25ug	Crude
LYRLFRKSNLKPFR	1967.33	25ug	Crude
FRKSNLKPFRDIST	1838.08	25ug	Crude
NLKPFRDISTEIYQ	1853.05	25ug	Crude
FERDISTEIYQAGNK	1770.90	25ug	Crude
ISTEIYQAGNKPCNG	1594.75	25ug	Crude
IYQAGNKPCNGVAGF	1538.73	25ug	Crude
GNKPCNGVAGFNCFY	1590.79	25ug	Crude
CNGVAGFNCFYPLRS	1647.88	25ug	Crude
AGFNCFYPLRSYSFR	1828.07	25ug	Crude
CYFPLRSYSFRPTYG	1857.10	25ug	Crude
LRSYSFRPTYGVGHQ	1767.95	25ug	Crude
SFRPTYGVGHQPYRV	1763.96	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
NKCVNFNFNGLKGTG	1612.82	25ug	Crude
NFNFNGLKGTGVLTE	1610.77	25ug	Crude
NGLKGTGVLTESNKK	1545.74	25ug	Crude
GTGVLTESNKKFLPF	1637.88	25ug	Crude
LTESNKKFLPFQFG	1784.03	25ug	Crude
NKKFLPFQFGRDIA	1809.08	25ug	Crude
LPFQFGRDIADTTD	1723.85	25ug	Crude
QFGRDIADTTDAVRD	1679.75	25ug	Crude
DIADTTDAVRDPQTL	1630.72	25ug	Crude
TTDAVRDPQTLLEILD	1686.82	25ug	Crude
VRDPQTLLEILDITPC	1712.97	25ug	Crude

QTLEILDITPCSFEGG	1593.80	25ug	Crude
ILDITPCSFEGGVSVI	1520.80	25ug	Crude
TPCSFEGGVSITPGT	1422.61	25ug	Crude
FGGVSITPGTNTSN	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
VNNSYECDIPIGAGI	1564.72	25ug	Crude
YECDIPIGAGICASY	1574.78	25ug	Crude
IPIGAGICASYQTQT	1522.73	25ug	Crude
AGICASYQTQTKSHR	1650.82	25ug	Crude
ASYQTQTKSHRRARS	1776.92	25ug	Crude
TQTKSHRRARSVASQ	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
SNNSIAIPTNFTISV	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
IAARDLICAQKFKGL	1647.00	25ug	Crude
DLICAQKFKGLTVLP	1646.01	25ug	Crude
AQKFKGLTVLPPLLT	1626.00	25ug	Crude
KGLTVLPPLLTDEMI	1640.00	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
NSAIGKIQDSLSTA	1491.61	25ug	Crude
GKIQDSLSTASALG	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
SKFGAISSVLNDIFS	1584.78	25ug	Crude
AISSVLNDIFSRLDK	1677.90	25ug	Crude
VLNDIFSRLDKVEAE	1747.95	25ug	Crude
IFSRLDKVEAEVQID	1761.98	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
VDFCGKGYHLMSEFPQ	1729.00	25ug	Crude
GKGYHLMSEFPQSAPH	1656.87	25ug	Crude
HLMSEFPQSAPHGVVF	1653.91	25ug	Crude
FPQSAPHGVVFLHVT	1635.87	25ug	Crude
APHGVVFLHVTVVPA	1606.87	25ug	Crude
VVFLHVTVVPAQEKN	1744.01	25ug	Crude
HVTVVPAQEKNFTTA	1705.87	25ug	Crude
VPAQEKNFTTAPAIC	1589.82	25ug	Crude
EKNFTTAPAICHDGK	1631.82	25ug	Crude
TTAPAICHDGKAHFP	1565.76	25ug	Crude
AICHDGKAHFREGV	1636.84	25ug	Crude
DGKAHFREGVFSN	1659.81	25ug	Crude
HFPREGVFSNGTHW	1769.92	25ug	Crude
EGVFSNGTHWFTVQ	1707.85	25ug	Crude
VSNGTHWFTVQRNFY	1856.01	25ug	Crude
THWFTVQRNFYEPQI	1966.17	25ug	Crude
VTQRNFYEPQIITTD	1824.99	25ug	Crude
NFYEPQIITTDNTFV	1801.95	25ug	Crude
PQIITTDNTFVSGNC	1609.76	25ug	Crude
TTDNTFVSGNCDVVI	1584.71	25ug	Crude
TFVSGNCDVVIIVN	1536.76	25ug	Crude

GNCDVVIGIVNNTVY	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
LDKYFKNHTSPDVDL	1791.96	25ug	Crude
FKNHTSPDVDLGDIS	1644.75	25ug	Crude
TSPDVDLGDISGINA	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