Supplementary Appendix SAChemical compositions of Ca-Cl brines in the Qaidam Basin.

| Sample No. | Brine type | TDS(mg·L-1) | K+(mg·L-1) | Na+(mg·L-1) | Ca2+(mg·L-1) | Mg2+(mg·L-1) | Cl-(mg·L-1) | SO42-(mg·L-1) | HCO3-(mg·L-)1 | B2O3(mg·L-1) | Br-(mg·L-1) | Li+(mg·L-1) | Sr2+(mg·L-1) | Reference |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N6 | CaCl2 | 118700.00  | 8230.00  | 87761.00  | 17094.00  | 1083.00  | 176248.00  | 254.10  | 56.75  | 2213.00  | 0.20  | 258.10  | 1543.00  | This study |
| N13 | CaCl2 | 112300.00  | 5292.00  | 85856.00  | 15404.00  | 1514.00  | 168005.00  | 291.40  | 157.20  | 2430.00  | 1.30  | 229.50  | 982.40  | This study |
| S38 | CaCl2 | 108000.00  | 3478.00  | 76127.00  | 261.40  | 8390.00  | 130714.00  | 15725.00  | 1789.00  | 2084.00  | 2.20  | 10.37  | 10.12  | This study |
| JS1 | CaCl2 | 140700.00  | 1960.00  | 48010.00  | 3940.00  | 410.00  | 82230.00  | 830.00  | 210.00  | 3197.63  | 59.25  | 104.60  | 264.20  | This study |
| L2 | CaCl2 | 151850.00  | 1220.00  | 47500.00  | 7300.00  | 860.00  | 88820.00  | 570.00  | 160.00  | 1733.09  | 59.75  | 57.90  | 420.90  | This study |
| E2 | CaCl2 | 70720.00  | 480.00  | 23830.00  | 2570.00  | 370.00  | 40870.00  | 1320.00  | 280.00  | 1539.24  | 35.17  | 20.00  | 129.50  | This study |
| HZK01 | CaCl2 | 238700.00  | 650.00  | 84290.00  | 5920.00  | 1230.00  | 143510.00  | 520.00  | 190.00  | 1120.62  | 30.68  | 9.00  | 547.50  | This study |
| YC2 | CaCl2 | 124800.00  | 610.00  | 39590.00  | 6220.00  | 890.00  | 74150.00  | 810.00  | 90.00  | 866.23  | 54.25  | 22.00  | 302.00  | This study |
| DY-01 | CaCl2 | 171680.00  | 1877.00  | 58816.15  | 4730.96  | 700.80  | 102260.23  | 515.60  | 212.43  | 1642.84  | 63.37  | 133.00  | 308.30  | This study |
| DY-02 | CaCl2 | 174472.50  | 1965.75  | 59656.45  | 5135.43  | 905.87  | 103152.48  | 314.75  | 118.82  | 1965.01  | 101.07  | 4.15  | 414.25  | This study |
| DY-03 | CaCl2 | 180605.06  | 280.75  | 65245.10  | 3461.31  | 819.19  | 107895.12  | 75.80  | 230.10  | 1218.77  | 159.22  | 12.10  | 423.00  | This study |
| DY-04 | CaCl2 | 182247.96  | 848.30  | 67555.07  | 1947.61  | 466.30  | 108702.41  | 484.90  | 354.06  | 1405.85  | 102.74  | 12.07  | 269.50  | This study |
| DY-05 | CaCl2 | 181608.97  | 758.25  | 66593.83  | 2388.68  | 580.10  | 107217.60  | 304.00  | 346.60  | 1569.75  | 105.21  | 16.60  | 395.50  | This study |
| DY-06 | CaCl2 | 180333.06  | 775.75  | 66458.52  | 2209.65  | 548.67  | 106624.77  | 342.25  | 370.94  | 1519.84  | 123.34  | 14.58  | 362.75  | This study |
| DY-07 | CaCl2 | 178667.99  | 764.25  | 65977.33  | 2190.80  | 471.51  | 105693.18  | 315.25  | 411.51  | 1438.54  | 123.41  | 13.00  | 353.00  | This study |
| DY-08 | CaCl2 | 180572.07  | 784.75  | 66824.74  | 2122.49  | 442.93  | 106624.77  | 517.50  | 486.86  | 1433.71  | 138.06  | 11.53  | 304.75  | This study |
| DY-09 | CaCl2 | 182315.92  | 676.50  | 65277.14  | 2365.13  | 564.67  | 105269.73  | 220.73  | 399.92  | 1361.26  | 61.57  | 12.75  | 280.75  | This study |
| DY-10 | CaCl2 | 176844.60  | 637.50  | 65172.10  | 2332.15  | 487.23  | 104761.59  | 307.25  | 430.06  | 1307.32  | 111.62  | 9.60  | 359.50  | This study |
| DY-11 | CaCl2 | 178811.83  | 615.75  | 65354.75  | 2428.73  | 555.81  | 105269.73  | 393.25  | 381.95  | 1395.07  | 75.72  | 13.48  | 374.00  | This study |
| DY-12 | CaCl2 | 178828.51  | 615.25  | 65463.66  | 2514.01  | 614.96  | 105777.87  | 330.00  | 457.88  | 1379.77  | 97.12  | 11.70  | 274.75  | This study |
| DY-13 | CaCl2 | 178284.22  | 657.75  | 65907.31  | 2169.13  | 548.67  | 105777.87  | 197.00  | 359.35  | 1453.83  | 147.20  | 9.83  | 245.25  | This study |
| DY-14 | CaCl2 | 178405.61  | 662.25  | 65833.74  | 2291.63  | 516.66  | 105777.87  | 139.48  | 359.35  | 1509.38  | 164.31  | 11.25  | 262.25  | This study |
| DY-15 | CaCl2 | 179704.39  | 689.00  | 66264.62  | 2295.40  | 506.37  | 105947.25  | 698.50  | 457.88  | 1533.53  | 165.77  | 14.73  | 260.00  | This study |
| DY-16 | CaCl2 | 183281.27  | 856.75  | 68700.43  | 1445.46  | 334.92  | 107386.98  | 1209.50  | 353.55  | 1678.43  | 164.97  | 20.38  | 263.75  | This study |
| DY-17 | CaCl2 | 187146.93  | 692.00  | 67415.89  | 2018.37  | 524.66  | 107471.67  | 517.75  | 405.72  | 1514.21  | 53.15  | 14.08  | 198.10  | This study |
| DY-18 | CaCl2 | 180492.96  | 547.75  | 66946.92  | 2110.71  | 469.80  | 106794.15  | 431.75  | 301.39  | 1467.52  | 91.87  | 7.60  | 214.65  | This study |
| DY-19 | CaCl2 | 178309.03  | 687.50  | 66642.60  | 1695.43  | 361.00  | 106703.11  | 182.80  | 334.25  | 1251.29  | 134.55  | 8.62  | 214.70  | This study |
| DY-20 | CaCl2 | 186273.40  | 568.75  | 68155.23  | 1865.72  | 480.08  | 108318.57  | 289.00  | 301.39  | 1525.48  | 62.50  | 10.98  | 189.55  | This study |
| DY-21 | CaCl2 | 185908.83  | 592.00  | 69078.89  | 1916.60  | 494.94  | 109758.31  | 334.25  | 372.10  | 1587.46  | 101.94  | 9.33  | 195.63  | This study |
| DY-22 | CaCl2 | 184980.21  | 680.25  | 68407.56  | 2114.48  | 512.09  | 108996.09  | 657.25  | 370.94  | 1557.68  | 92.22  | 10.38  | 202.13  | This study |
| DY-23 | CaCl2 | 187104.39  | 775.75  | 68599.85  | 2314.24  | 529.24  | 109588.93  | 982.50  | 370.94  | 1511.79  | 88.58  | 13.85  | 179.23  | This study |
| DY-24 | CaCl2 | 188546.82  | 540.75  | 69501.80  | 1944.87  | 534.95  | 110351.14  | 450.00  | 341.96  | 1696.94  | 131.03  | 10.13  | 211.15  | This study |
| DY-25 | CaCl2 | 188493.84  | 584.75  | 69987.51  | 2367.01  | 387.50  | 111536.80  | 377.50  | 289.80  | 1700.97  | 200.28  | 15.23  | 211.75  | This study |
| DY-26 | CaCl2 | 189068.13  | 579.00  | 69799.78  | 2393.39  | 480.08  | 111452.11  | 501.75  | 337.32  | 1688.09  | 154.50  | 14.68  | 216.93  | This study |
| DY-27 | CaCl2 | 190613.44  | 612.25  | 69324.58  | 2209.65  | 490.09  | 110351.14  | 582.00  | 301.39  | 1751.68  | 63.79  | 16.93  | 255.75  | This study |
| DY-28 | CaCl2 | 187274.48  | 779.75  | 68917.22  | 2302.93  | 524.66  | 110097.07  | 718.75  | 312.98  | 1688.89  | 140.44  | 14.85  | 226.00  | This study |
| DY-29 | CaCl2 | 187669.61  | 805.00  | 69524.67  | 2148.40  | 400.07  | 109843.00  | 1462.00  | 300.23  | 1723.51  | 145.35  | 12.75  | 268.75  | This study |
| DY-30 | CaCl2 | 185264.47  | 797.75  | 68013.80  | 2506.47  | 594.39  | 109588.93  | 420.75  | 208.65  | 1666.35  | 144.65  | 14.50  | 361.75  | This study |
| DY-31 | CaCl2 | 187095.02  | 812.75  | 68538.50  | 2729.47  | 579.15  | 110605.21  | 494.00  | 156.49  | 1796.76  | 150.19  | 20.50  | 369.25  | This study |
| DY-32 | CaCl2 | 186685.28  | 773.75  | 68977.18  | 2219.07  | 557.24  | 110435.83  | 446.00  | 　- | 1768.59  | 144.17  | 20.00  | 328.50  | This study |
| DY-33 | CaCl2 | 188919.54  | 837.50  | 69016.06  | 2761.42  | 633.90  | 113219.33  | 375.80  | 174.03  | 1383.63  | 87.53  | 23.15  | 356.20  | This study |
| DY-34 | CaCl2 | 187558.85  | 814.75  | 68122.04  | 2924.21  | 722.03  | 110859.28  | 347.25  | 157.65  | 1771.81  | 101.28  | 29.18  | 398.25  | This study |
| DY-35 | CaCl2 | 191833.03  | 786.25  | 68855.69  | 3128.37  | 773.47  | 112383.70  | 431.50  | 179.67  | 1787.91  | 79.76  | 31.88  | 397.50  | This study |
| DY-36 | CaCl2 | 189031.35  | 701.75  | 68930.82  | 2987.03  | 704.89  | 112044.94  | 416.50  | 168.08  | 1734.78  | 132.68  | 34.08  | 371.00  | This study |
| DY-37 | CaCl2 | 195919.23  | 833.25  | 70352.23  | 2468.78  | 545.81  | 112807.15  | 627.25  | 261.40  | 1692.11  | 65.57  | 19.18  | 263.25  | This study |
| DY-38 | CaCl2 | 196699.37  | 817.75  | 70683.13  | 3109.53  | 782.99  | 115178.47  | 523.25  | 214.45  | 1745.24  | 84.23  | 23.15  | 332.50  | This study |
| DY-39 | CaCl2 | 193561.29  | 846.50  | 70462.47  | 3046.71  | 744.89  | 114670.33  | 404.75  | 197.06  | 1813.67  | 143.94  | 28.33  | 369.00  | This study |
| DY-40 | CaCl2 | 193779.95  | 911.75  | 70049.80  | 3345.10  | 807.76  | 114839.71  | 457.25  | 191.27  | 1744.44  | 174.62  | 33.60  | 409.75  | This study |
| DY-41 | CaCl2 | 197763.17  | 902.25  | 71249.48  | 3392.21  | 914.45  | 117041.65  | 493.00  | 188.37  | 1752.49  | 105.38  | 27.60  | 431.25  | This study |
| DY-42 | CaCl2 | 194462.12  | 816.00  | 69985.38  | 3411.06  | 905.87  | 115093.78  | 475.75  | 172.72  | 1704.99  | 96.32  | 31.20  | 407.75  | This study |
| DY-43 | CaCl2 | 193618.45  | 835.75  | 70339.12  | 3102.46  | 790.14  | 114755.02  | 435.75  | 202.86  | 1734.78  | 191.52  | 36.38  | 391.25  | This study |
| DY-45 | CaCl2 | 190740.04  | 766.75  | 69480.28  | 3098.22  | 726.98  | 113399.98  | 308.25  | 202.86  | 1608.39  | 160.96  | 43.63  | 306.25  | This study |
| DY-46 | CaCl2 | 186424.57  | 722.75  | 68204.81  | 2932.38  | 576.10  | 110435.83  | 400.25  | 246.91  | 1737.19  | 194.22  | 48.00  | 298.00  | This study |
| DY-47 | CaCl2 | 185527.71  | 641.50  | 66824.68  | 3382.79  | 954.45  | 110012.38  | 220.15  | 243.43  | 1989.96  | 170.98  | 71.23  | 331.00  | This study |
| DY-48 | CaCl2 | 180919.88  | 732.40  | 63545.65  | 4270.72  | 1098.13  | 108795.63  | 407.10  | 198.03  | 1279.63  | 118.26  | 34.34  | 332.30  | This study |
| DY-49 | CaCl2 | 186546.79  | 776.25  | 68150.84  | 2864.53  | 644.68  | 110435.83  | 394.50  | 173.88  | 1828.16  | 245.64  | 42.53  | 352.25  | This study |
| DY-50 | CaCl2 | 188591.16  | 840.50  | 69054.64  | 2676.08  | 667.55  | 111452.11  | 483.50  | 176.78  | 1927.17  | 302.06  | 42.53  | 348.50  | This study |
| DY-51 | CaCl2 | 184172.85  | 750.50  | 66542.53  | 3324.37  | 713.27  | 108996.09  | 284.75  | 230.68  | 1826.55  | 524.73  | 57.93  | 298.50  | This study |
| DY-52 | CaCl2 | 180133.44  | 904.25  | 65245.12  | 3056.76  | 708.70  | 106540.08  | 391.50  | 197.06  | 1875.65  | 253.87  | 75.30  | 267.50  | This study |
| DY-53 | CaCl2 | 186697.85  | 879.75  | 68182.76  | 2743.00  | 714.00  | 110266.45  | 459.50  | 245.75  | 2033.43  | 265.49  | 58.20  | 274.25  | This study |
| DY-54 | CaCl2 | 194089.99  | 878.50  | 70732.45  | 3094.45  | 662.97  | 115178.47  | 385.25  | 250.39  | 1583.44  | 280.80  | 37.98  | 333.75  | This study |
| DY-55 | CaCl2 | 189117.31  | 727.00  | 67474.43  | 4098.92  | 945.88  | 112807.15  | 133.33  | 133.89  | 1651.06  | 118.32  | 71.38  | 379.00  | This study |
| DY-56 | CaCl2 | 192381.03  | 861.25  | 69776.69  | 3429.90  | 667.55  | 114416.26  | 248.95  | 186.05  | 1601.95  | 152.42  | 42.15  | 371.00  | This study |
| DY-57 | CaCl2 | 183032.67  | 922.25  | 67008.91  | 2679.47  | 593.87  | 108233.88  | 407.00  | 179.67  | 1912.68  | 159.33  | 59.98  | 262.00  | This study |
| DY-58 | CaCl2 | 186080.65  | 946.75  | 67384.80  | 3194.33  | 748.70  | 110181.76  | 424.00  | 154.75  | 1930.39  | 159.64  | 83.28  | 286.50  | This study |
| DY-59 | CaCl2 | 184416.84  | 1097.00  | 65669.39  | 3816.24  | 914.45  | 109250.17  | 385.50  | 162.29  | 1960.98  | 108.00  | 112.98  | 352.50  | This study |
| DY-60 | CaCl2 | 184310.68  | 910.75  | 66946.08  | 3012.07  | 757.07  | 109080.78  | 422.50  | 185.47  | 2006.06  | 124.05  | 75.30  | 247.48  | This study |
| DY-61 | CaCl2 | 181863.93  | 1127.25  | 65381.28  | 3373.37  | 754.42  | 107386.98  | 470.75  | 162.29  | 2092.20  | 132.43  | 98.18  | 271.00  | This study |
| DY-62 | CaCl2 | 190418.34  | 1037.25  | 69068.28  | 3105.50  | 793.33  | 112468.39  | 686.50  | 197.06  | 2072.07  | 99.81  | 79.55  | 267.50  | This study |
| DY-63 | CaCl2 | 182324.48  | 931.00  | 65588.55  | 3439.33  | 803.00  | 107810.43  | 450.50  | 169.82  | 2079.32  | 145.37  | 93.10  | 289.50  | This study |
| DY-64 | CaCl2 | 182173.40  | 1168.75  | 65285.95  | 3434.61  | 834.43  | 107641.05  | 446.75  | 151.27  | 2094.61  | 171.27  | 101.13  | 302.00  | This study |
| DY-65 | CaCl2 | 181942.31  | 1077.50  | 65150.89  | 3533.55  | 803.00  | 107471.67  | 461.25  | 197.64  | 2019.75  | 117.08  | 102.25  | 280.50  | This study |
| DY-66 | CaCl2 | 183115.36  | 1398.75  | 65424.06  | 3652.28  | 596.68  | 107556.36  | 763.25  | 243.43  | 2006.06  | 105.46  | 81.15  | 232.10  | This study |
| DY-67 | CaCl2 | 181832.65  | 1250.75  | 64876.41  | 3693.74  | 760.13  | 107302.29  | 467.50  | 157.07  | 2099.44  | 138.27  | 107.70  | 286.75  | This study |
| DY-68 | CaCl2 | 181246.06  | 1141.00  | 65011.27  | 3349.81  | 825.86  | 107132.91  | 408.75  | 179.67  | 1992.38  | 147.90  | 92.13  | 291.25  | This study |
| DY-69 | CaCl2 | 181779.26  | 889.00  | 65405.52  | 3392.21  | 800.14  | 107471.67  | 434.50  | 171.56  | 2018.14  | 132.34  | 94.90  | 305.50  | This study |
| DY-70 | CaCl2 | 183436.10  | 933.50  | 66044.70  | 3297.98  | 828.72  | 108318.57  | 470.50  | 215.61  | 2060.00  | 143.78  | 91.30  | 286.75  | This study |
| DY-71 | CaCl2 | 180894.89  | 1301.00  | 64615.24  | 3392.21  | 885.87  | 106878.84  | 499.00  | 162.87  | 1974.67  | 125.26  | 105.33  | 272.25  | This study |
| DY-72 | CaCl2 | 182581.82  | 913.00  | 65782.57  | 3108.62  | 772.70  | 109516.93  | 342.00  | 178.83  | 1499.88  | 120.43  | 89.60  | 238.20  | This study |
| DY-73 | CaCl2 | 183197.36  | 813.25  | 65715.49  | 3463.82  | 939.59  | 108318.57  | 446.25  | 250.39  | 2057.58  | 126.79  | 97.33  | 284.00  | This study |
| DY-74 | CaCl2 | 181770.91  | 1696.00  | 64675.30  | 3392.21  | 860.15  | 106624.77  | 614.25  | 156.49  | 2513.21  | 68.99  | 133.53  | 346.50  | This study |
| DY-75 | CaCl2 | 179814.16  | 1128.75  | 64080.76  | 3580.67  | 891.58  | 106455.39  | 337.50  | 190.11  | 1873.24  | 141.12  | 131.05  | 377.50  | This study |
| DY-76 | CaCl2 | 183455.69  | 877.75  | 64423.27  | 4353.34  | 1225.36  | 108996.09  | 426.25  | 144.90  | 1932.81  | 68.46  | 102.33  | 284.25  | This study |
| DY-77 | CaCl2 | 181036.24  | 953.00  | 64606.74  | 3624.95  | 972.40  | 107556.36  | 378.25  | 156.49  | 1729.95  | 107.20  | 95.08  | 261.00  | This study |
| DY-78 | CaCl2 | 182024.14  | 816.50  | 65307.65  | 3449.31  | 947.47  | 107979.81  | 418.75  | 194.16  | 1825.74  | 118.99  | 92.55  | 258.25  | This study |
| DY-79 | CaCl2 | 185282.25  | 809.00  | 66128.31  | 3774.43  | 1020.00  | 110012.38  | 360.75  | 155.33  | 1902.22  | 144.26  | 89.33  | 283.75  | This study |
| DY-80 | CaCl2 | 185392.65  | 684.50  | 66339.78  | 3927.65  | 906.67  | 110520.52  | 289.50  | 156.49  | 1605.17  | 130.50  | 80.40  | 253.50  | This study |
| DY-81 | CaCl2 | 187190.26  | 684.50  | 67065.36  | 3811.80  | 974.67  | 111706.18  | 286.25  | 144.90  | 1541.58  | 138.47  | 68.60  | 249.30  | This study |
| DY-82 | CaCl2 | 188649.58  | 616.75  | 67974.36  | 3382.04  | 1094.80  | 112553.08  | 277.00  | 185.47  | 1605.98  | 123.51  | 66.90  | 264.00  | This study |
| DY-83 | CaCl2 | 184404.72  | 981.10  | 67014.82  | 2739.08  | 688.40  | 110331.46  | 366.60  | 219.03  | 1577.48  | 127.13  | 67.13  | 232.70  | This study |
| DY-84 | CaCl2 | 184121.12  | 680.25  | 66534.75  | 2952.28  | 956.53  | 109165.47  | 353.00  | 190.11  | 1610.00  | 57.20  | 69.40  | 212.65  | This study |
| DY-85 | CaCl2 | 182365.12  | 1130.25  | 65554.39  | 3161.35  | 940.16  | 108149.19  | 422.25  | 174.46  | 1799.98  | 87.29  | 90.55  | 243.85  | This study |
| DY-86 | CaCl2 | 182835.17  | 848.75  | 65667.68  | 3395.98  | 937.31  | 108318.57  | 423.50  | 209.23  | 1932.81  | 83.22  | 93.60  | 251.50  | This study |
| DY-87 | CaCl2 | 181917.73  | 1323.75  | 65046.38  | 3293.27  | 928.73  | 107386.98  | 496.75  | 191.85  | 2084.15  | 86.51  | 102.25  | 267.00  | This study |
| DY-88 | CaCl2 | 182867.09  | 1294.00  | 64915.35  | 3611.67  | 808.50  | 109294.79  | 545.30  | 190.83  | 1682.45  | 115.84  | 104.90  | 250.50  | This study |
| SZG28 | CaCl2 | 134300.00  | 1470.00  | 49910.00  | 680.00  | 290.00  | 78530.00  | 1940.00  | 58.39  | 1240.00  | 28.00  | 27.18  | 106.00  | Liu et al., 2019 |
| SZG24 | CaCl2 | 329600.00  | 6900.00  | 120500.00  | 160.00  | 20.00  | 186800.00  | 11180.00  | 0.00  | 4030.00  | 29.60  | 1.24  | 11.38  | Liu et al., 2019 |
| SZG40 | CaCl2 | 312700.00  | 5430.00  | 114600.00  | 260.00  | 20.00  | 177000.00  | 11060.00  | 0.00  | 440.00  | 38.53  | 3.02  | 17.88  | Liu et al., 2019 |
| SZG201 | CaCl2 | 308700.00  | 7340.00  | 113000.00  | 250.00  | 130.00  | 174700.00  | 8560.00  | 198.70  | 4460.00  | 0.30  | 0.65  | 8.25  | Liu et al., 2019 |
| YSS | CaCl2 | 197900.00  | 299.00  | 68480.00  | 6510.00  | 1300.00  | 120000.00  | 571.00  | 72.00  | 1613.95  | 98.00  | 2.10  | 253.00  | Tan et al., 2007 |
| YDZ | CaCl2 | 320400.00  | 2500.00  | 117800.00  | 4840.00  | 839.00  | 192200.00  | 1340.00  | 232.00  | 3120.34  | 59.50  | 20.90  | 116.00  | Tan et al., 2007 |
| YDZ | CaCl2 | 318900.00  | 1840.00  | 116600.00  | 4450.00  | 1790.00  | 191800.00  | 1560.00  | 307.00  | 2540.07  | 79.30  | 13.00  | 85.40  | Tan et al., 2007 |
| XLS | CaCl2 | 154100.00  | 840.00  | 57250.00  | 1580.00  | 330.00  | 89010.00  | 2050.00  | 0.00  | 543.56  | 54.80  | 36.00  | 7.50  | Tan et al., 2007 |
| NYS-01 | CaCl2 | 324610.00  | 4210.00  | 105710.00  | 12920.00  | 2480.00  | 194440.00  | 660.00  | 530.00  | 5641.73  | 84.00  | 175.00  | 536.00  | Li et al., 2007 |
| NYS-02 | CaCl2 | 326380.00  | 3890.00  | 106620.00  | 12880.00  | 2500.00  | 195640.00  | 670.00  | 540.00  | 5622.41  | 91.00  | 175.00  | 528.00  | Li et al., 2007 |
| YDZ-2-01 | CaCl2 | 321510.00  | 2500.00  | 117770.00  | 4840.00  | 840.00  | 192200.00  | 1340.00  | 230.00  | 3123.56  | 60.00  | 21.00  | 116.00  | Li et al., 2007 |
| YDZ-2-02 | CaCl2 | 319790.00  | 1840.00  | 116600.00  | 4450.00  | 1790.00  | 191750.00  | 1560.00  | 310.00  | 2537.49  | 79.00  | 13.00  | 85.00  | Li et al., 2007 |
| ZK-5034 # | CaCl2 | 208590.00  | 300.00  | 68480.00  | 6510.00  | 1300.00  | 129990.00  | 570.00  | 70.00  | 1616.52  | 98.00  | 2.00  | 253.00  | Li et al., 2007 |
| XLS-01 | CaCl2 | 154100.00  | 480.00  | 57250.00  | 1580.00  | 330.00  | 89010.00  | 2050.00  | 0.00  | 540.99  | 55.00  | 36.00  | 8.00  | Li et al., 2007 |
| NYS-01 | CaCl2 | 280190.00  | 5680.00  | 91720.00  | 10950.00  | 1400.00  | 166670.00  | 570.00  | 370.00  | 2630.00  | 49.81  | 175.36  | 　 | Li et al., 2013 |
| NYS-02 | CaCl2 | 136570.00  | 2850.00  | 42760.00  | 6970.00  | 750.00  | 81410.00  | 180.00  | 210.00  | 1320.00  | 13.95  | 110.10  | 　 | Li et al., 2013 |
| NYS-03 | CaCl2 | 269440.00  | 8460.00  | 82990.00  | 13970.00  | 870.00  | 159860.00  | 220.00  | 130.00  | 2680.00  | 36.45  | 237.50  | 　 | Li et al., 2013 |
| NYS-04 | CaCl2 | 160270.00  | 1050.00  | 59280.00  | 1980.00  | 460.00  | 93880.00  | 1250.00  | 310.00  | 2040.00  | 42.13  | 26.31  | 　 | Li et al., 2013 |
| NYS-05 | CaCl2 | 258670.00  | 3700.00  | 85770.00  | 10510.00  | 1060.00  | 154200.00  | 470.00  | 240.00  | 2510.00  | 45.50  | 164.80  | 　 | Li et al., 2013 |
| SZG-02 | CaCl2 | 76620.00  | 450.00  | 24370.00  | 940.00  | 2490.00  | 42510.00  | 5280.00  | 220.00  | 360.00  | 0.89  | 2.40  | 　 | Li et al., 2013 |
| SZG-04 | CaCl2 | 113550.00  | 250.00  | 41850.00  | 1410.00  | 430.00  | 65120.00  | 3120.00  | 860.00  | 530.00  | 0.53  | 0.88  | 　 | Li et al., 2013 |
| XLS-03 | CaCl2 | 170560.00  | 290.00  | 62920.00  | 2430.00  | 720.00  | 100160.00  | 1320.00  | 510.00  | 2170.00  | 0.38  | 26.00  | 　 | Li et al., 2013 |
| XLS-04 | CaCl2 | 177730.00  | 390.00  | 65220.00  | 2660.00  | 760.00  | 103420.00  | 2290.00  | 800.00  | 2190.00  | 0.34  | 2.94  | 　 | Li et al., 2013 |
| XLS-05 | CaCl2 | 260250.00  | 5520.00  | 76510.00  | 260.00  | 12820.00  | 148180.00  | 14880.00  | 970.00  | 1050.00  | 48.88  | 5.98  | 　 | Li et al., 2013 |
| XLS-06 | CaCl2 | 155760.00  | 2160.00  | 56490.00  | 270.00  | 1570.00  | 90760.00  | 4000.00  | 150.00  | 320.00  | 14.73  | 2.67  | 　 | Li et al., 2013 |
| XLS-07 | CaCl2 | 167090.00  | 620.00  | 61120.00  | 1980.00  | 1080.00  | 98540.00  | 2960.00  | 310.00  | 490.00  | 0.79  | 2.34  | 　 | Li et al., 2013 |
| YQZ-01 | CaCl2 | 210950.00  | 720.00  | 78040.00  | 2330.00  | 1090.00  | 124940.00  | 1480.00  | 410.00  | 1920.00  | 1.12  | 19.19  | 　 | Li et al., 2013 |
| YQZ-02 | CaCl2 | 204880.00  | 660.00  | 75940.00  | 1990.00  | 1170.00  | 121310.00  | 1390.00  | 460.00  | 1940.00  | 1.35  | 17.79  | 　 | Li et al., 2013 |
| YQZ-03 | CaCl2 | 214130.00  | 690.00  | 78660.00  | 2510.00  | 1360.00  | 126240.00  | 1560.00  | 570.00  | 2510.00  | 2.23  | 28.83  | 　 | Li et al., 2013 |
| YQZ-04 | CaCl2 | 218000.00  | 690.00  | 78920.00  | 3100.00  | 1780.00  | 129010.00  | 1240.00  | 480.00  | 2680.00  | 57.25  | 43.92  | 　 | Li et al., 2013 |
| YQZ-05 | CaCl2 | 207560.00  | 760.00  | 71450.00  | 5310.00  | 2460.00  | 125170.00  | 220.00  | 200.00  | 1890.00  | 0.99  | 97.80  | 　 | Li et al., 2013 |
| YDZ-01 | CaCl2 | 316000.00  | 1710.00  | 116800.00  | 4420.00  | 820.00  | 189350.00  | 1110.00  | 210.00  | 1470.00  | 64.15  | 29.14  | 　 | Li et al., 2013 |
| GS-01 | CaCl2 | 73420.00  | 300.00  | 25680.00  | 1820.00  | 590.00  | 43820.00  | 430.00  | 270.00  | 490.00  | 16.50  | 5.63  | 　 | Li et al., 2013 |
| GS-03 | CaCl2 | 80400.00  | 820.00  | 29040.00  | 1450.00  | 160.00  | 47140.00  | 820.00  | 310.00  | 620.00  | 13.65  | 13.90  | 　 | Li et al., 2013 |
| GS-04 | CaCl2 | 59550.00  | 430.00  | 21810.00  | 830.00  | 120.00  | 33980.00  | 1330.00  | 440.00  | 590.00  | 18.18  | 10.59  | 　 | Li et al., 2013 |
| GS-05 | CaCl2 | 77750.00  | 480.00  | 28410.00  | 1220.00  | 200.00  | 45160.00  | 1100.00  | 460.00  | 1700.00  | 14.00  | 14.01  | 　 | Li et al., 2013 |
| KB-03 | CaCl2 | 18600.00  | 57.00  | 6290.00  | 730.00  | 113.00  | 11150.00  | 15.00  | 68.00  | 160.00  | 5.03  | 0.54  | 　 | Li et al., 2013 |
| DFS-01 | CaCl2 | 173250.00  | 1280.00  | 60090.00  | 4880.00  | 1100.00  | 103820.00  | 240.00  | 130.00  | 1510.00  | 36.35  | 158.20  | 　 | Li et al., 2013 |
| DFS-02 | CaCl2 | 170520.00  | 1620.00  | 58990.00  | 4840.00  | 980.00  | 102050.00  | 210.00  | 210.00  | 1450.00  | 37.06  | 139.60  | 　 | Li et al., 2013 |
| LH-01 | CaCl2 | 42160.00  | 120.00  | 11830.00  | 3460.00  | 470.00  | 25000.00  | 490.00  | 780.00  | 56.00  | 4.48  | 1.14  | 　 | Li et al., 2013 |
| LH-02 | CaCl2 | 46850.00  | 73.00  | 12570.00  | 3310.00  | 1410.00  | 29160.00  | 270.00  | 74.00  | 20.00  | 4.83  | 0.85  | 　 | Li et al., 2013 |
| LH-03 | CaCl2 | 30660.00  | 44.00  | 8570.00  | 1820.00  | 940.00  | 19110.00  | 45.00  | 100.00  | 13.00  | 4.94  | 0.43  | 　 | Li et al., 2013 |
| LH-04 | CaCl2 | 32430.00  | 47.00  | 8960.00  | 1840.00  | 1130.00  | 20350.00  | 8.00  | 76.00  | 11.00  | 5.84  | 0.29  | 　 | Li et al., 2013 |
| YSS-01 | CaCl2 | 93260.00  | 370.00  | 32720.00  | 2550.00  | 560.00  | 55960.00  | 330.00  | 130.00  | 610.00  | 20.85  | 7.81  | 　 | Li et al., 2013 |
| YSS-02 | CaCl2 | 114800.00  | 220.00  | 38110.00  | 4620.00  | 1200.00  | 70320.00  | 14.00  | 18.00  | 260.00  | 35.25  | 1.69  | 　 | Li et al., 2013 |
| YSS-03 | CaCl2 | 162300.00  | 340.00  | 55280.00  | 6050.00  | 1110.00  | 98920.00  | 61.00  | 58.00  | 430.00  | 51.58  | 4.99  | 　 | Li et al., 2013 |
| YSS-04 | CaCl2 | 127830.00  | 720.00  | 46340.00  | 2630.00  | 300.00  | 75980.00  | 530.00  | 170.00  | 1110.00  | 29.75  | 30.98  | 　 | Li et al., 2013 |
| YSS-05 | CaCl2 | 5590.00  | 31.00  | 1830.00  | 240.00  | 44.00  | 3270.00  | 34.00  | 84.00  | 55.00  | 0.97  | 0.13  | 　 | Li et al., 2013 |
| N6（1） | CaCl2 | 282200.00  | 7520.00  | 85680.00  | 15860.00  | 1090.00  | 169000.00  | 220.00  | 183.00  | 2426.00  | 46.20  | 253.00  | 　 | Li et al., 2015 |
| N6（2） | CaCl2 | 282400.00  | 7550.00  | 85720.00  | 15990.00  | 1140.00  | 169000.00  | 170.00  | 101.70  | 2453.00  | 46.20  | 253.00  | 　 | Li et al., 2015 |
| N6（3） | CaCl2 | 282200.00  | 7600.00  | 85770.00  | 15730.00  | 1150.00  | 169000.00  | 170.00  | 56.82  | 2455.00  | 43.80  | 254.00  | 　 | Li et al., 2015 |
| N6（4） | CaCl2 | 286600.00  | 7580.00  | 87260.00  | 15830.00  | 1120.00  | 171700.00  | 170.00  | 0.00  | 2575.00  | 73.00  | 255.00  | 　 | Li et al., 2015 |
| N6（5） | CaCl2 | 285000.00  | 7580.00  | 86360.00  | 16090.00  | 1060.00  | 170800.00  | 180.00  | 103.50  | 2507.00  | 46.40  | 255.00  | 　 | Li et al., 2015 |
| N2-3（1） | CaCl2 | 285000.00  | 7660.00  | 84920.00  | 15750.00  | 1380.00  | 170300.00  | 320.00  | 0.00  | 2540.00  | 　 | 254.00  | 　 | Li et al., 2015 |
| N2-3（2） | CaCl2 | 283600.00  | 7660.00  | 83660.00  | 15780.00  | 1330.00  | 170300.00  | 360.00  | 0.00  | 2393.00  | 　 | 255.00  | 　 | Li et al., 2015 |
| N2-3（3） | CaCl2 | 279900.00  | 7580.00  | 82950.00  | 15750.00  | 1360.00  | 167300.00  | 320.00  | 0.00  | 2441.00  | 　 | 255.00  | 　 | Li et al., 2015 |
| N2-3（4） | CaCl2 | 283600.00  | 7660.00  | 84330.00  | 15830.00  | 1280.00  | 169300.00  | 290.00  | 0.00  | 2591.00  | 　 | 261.00  | 　 | Li et al., 2015 |
| N2-3（5） | CaCl2 | 284700.00  | 7600.00  | 83540.00  | 15950.00  | 1360.00  | 171200.00  | 340.00  | 0.00  | 2445.00  | 　 | 254.00  | 　 | Li et al., 2015 |
| N13（1） | CaCl2 | 285500.00  | 5210.00  | 87580.00  | 14730.00  | 1490.00  | 172200.00  | 270.00  | 0.00  | 2531.00  | 　 | 230.00  | 　 | Li et al., 2015 |
| N13（2） | CaCl2 | 291100.00  | 5240.00  | 89780.00  | 15170.00  | 1520.00  | 175200.00  | 240.00  | 0.00  | 2512.00  | 　 | 230.00  | 　 | Li et al., 2015 |
| N13（3） | CaCl2 | 287100.00  | 5230.00  | 88890.00  | 14960.00  | 1510.00  | 172200.00  | 300.00  | 0.00  | 2527.00  | 　 | 230.00  | 　 | Li et al., 2015 |
| N13（4） | CaCl2 | 286000.00  | 5240.00  | 87930.00  | 14830.00  | 1480.00  | 172200.00  | 300.00  | 0.00  | 2514.00  | 　 | 231.00  | 　 | Li et al., 2015 |
| N13（5） | CaCl2 | 293000.00  | 5240.00  | 90400.00  | 15360.00  | 1530.00  | 176200.00  | 300.00  | 0.00  | 2533.00  | 　 | 230.00  | 　 | Li et al., 2015 |