Table S3 Stability of analytes in different storage conditions (n=6 for each value).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **No.** | **Con.-M7** | **RR-M7** | **Con.-M8** | **RR-M8** | **Con.-BIC** | **RR-BIC** |
| **RT  Stability** | L1 | 10.73 | 107.33 | 2.31 | 92.21 | 10.56 | 105.63 |
| L2 | 10.22 | 102.22 | 2.26 | 90.59 | 9.97 | 99.66 |
| L3 | 10.56 | 105.6 | 2.19 | 87.47 | 10.79 | 107.88 |
| L4 | 9.54 | 95.43 | 2.21 | 88.56 | 10.49 | 104.93 |
| L5 | 9.8 | 98.02 | 2.38 | 95.16 | 9.69 | 96.88 |
| L6 | 10.7 | 107.04 | 2.55 | 102.04 | 9.19 | 91.87 |
| M1 | 97.3 | 97.3 | 21.74 | 86.94 | 96.58 | 96.58 |
| M2 | 93.59 | 93.59 | 22.61 | 90.46 | 92.03 | 92.03 |
| M3 | 89.89 | 89.89 | 24.89 | 99.58 | 88.8 | 88.8 |
| M4 | 88.21 | 88.21 | 21.65 | 86.61 | 92.99 | 92.99 |
| M5 | 89 | 89 | 22.13 | 88.52 | 88.52 | 88.52 |
| M6 | 97.41 | 97.41 | 24.61 | 98.44 | 97.8 | 97.8 |
| H1 | 1415.02 | 88.44 | 395.01 | 98.75 | 1535.84 | 95.99 |
| H2 | 1517.94 | 94.87 | 387.75 | 96.94 | 1725.56 | 107.85 |
| H3 | 1390.08 | 86.88 | 372.28 | 93.07 | 1448.18 | 90.51 |
| H4 | 1642.94 | 102.68 | 400.84 | 100.21 | 1505.29 | 94.08 |
| H5 | 1535.21 | 95.95 | 357.4 | 89.35 | 1500.14 | 93.76 |
| H6 | 1439.64 | 89.98 | 382.3 | 95.58 | 1455.6 | 90.98 |
| **Autosampler  Stability** | L1 | 8.97 | 89.73 | 2.42 | 87.27 | 10.38 | 103.78 |
| L2 | 9.31 | 93.13 | 2.63 | 106.17 | 9.18 | 91.84 |
| L3 | 8.74 | 87.41 | 2.33 | 90.26 | 9.79 | 97.95 |
| L4 | 9.48 | 94.83 | 2.61 | 85.88 | 9.62 | 96.21 |
| L5 | 9.08 | 90.83 | 2.39 | 88.96 | 8.68 | 86.8 |
| L6 | 9.22 | 92.25 | 2.46 | 91.59 | 8.75 | 87.51 |
| M1 | 98.7 | 98.7 | 23.57 | 109.45 | 93.26 | 93.26 |
| M2 | 110.22 | 110.22 | 23.82 | 111.36 | 98.37 | 98.37 |
| M3 | 93.4 | 93.4 | 21.31 | 94.82 | 92.43 | 92.43 |
| M4 | 95.14 | 95.14 | 23.09 | 95.31 | 91 | 91 |
| M5 | 90.81 | 90.81 | 22.22 | 93.97 | 89.75 | 89.75 |
| M6 | 101.24 | 101.24 | 26.24 | 96.41 | 96.28 | 96.28 |
| H1 | 1520.4 | 95.02 | 397.29 | 91.01 | 1466.72 | 91.67 |
| H2 | 1595.5 | 99.72 | 381.02 | 92.19 | 1684.75 | 105.3 |
| H3 | 1456.42 | 91.03 | 347.99 | 108.49 | 1464.42 | 91.53 |
| H4 | 1420.99 | 88.81 | 423.97 | 90.42 | 1492.56 | 93.29 |
| H5 | 1523 | 95.19 | 359.05 | 94.42 | 1510.51 | 94.41 |
| H6 | 1497.92 | 93.62 | 388.33 | 102.8 | 1397.27 | 87.33 |
| **Freeze-Thaw Stability** | L1 | 9.52 | 95.19 | 2.64 | 105.73 | 10.63 | 106.35 |
| L2 | 8.94 | 89.38 | 2.61 | 104.28 | 10.81 | 108.1 |
| L3 | 9.69 | 96.88 | 2.28 | 91.34 | 10.98 | 109.77 |
| L4 | 8.79 | 87.88 | 2.75 | 109.88 | 10.79 | 107.93 |
| L5 | 9.65 | 96.45 | 2.34 | 93.55 | 9.48 | 94.77 |
| L6 | 9 | 90.02 | 2.72 | 108.81 | 8.79 | 87.89 |
| M1 | 88.71 | 88.71 | 21.66 | 86.64 | 96.66 | 96.66 |
| M2 | 97.02 | 97.02 | 23.65 | 94.6 | 99.74 | 99.74 |
| M3 | 94.57 | 94.57 | 23.74 | 94.95 | 92.73 | 92.73 |
| M4 | 88.65 | 88.65 | 22.29 | 89.18 | 89.15 | 89.15 |
| M5 | 95.65 | 95.65 | 22.19 | 88.78 | 96.83 | 96.83 |
| M6 | 102.71 | 102.71 | 24.07 | 96.29 | 92.82 | 92.82 |
| H1 | 1608.28 | 100.52 | 368.54 | 92.13 | 1367.17 | 85.45 |
| H2 | 1716.77 | 107.3 | 416.31 | 104.08 | 1573.82 | 98.36 |
| H3 | 1637.36 | 102.34 | 352.92 | 88.23 | 1419.97 | 88.75 |
| H4 | 1710.35 | 106.9 | 381.71 | 95.43 | 1546.59 | 96.66 |
| H5 | 1499.58 | 93.72 | 363.85 | 90.96 | 1426.88 | 89.18 |
| H6 | 1818.68 | 113.67 | 375.85 | 93.96 | 1583.69 | 98.98 |
| **Long-Term Stability** | L1 | 10.19 | 101.87 | 2.4 | 96.04 | 10.42 | 104.24 |
| L2 | 9.08 | 90.81 | 2.28 | 91.35 | 10.93 | 109.31 |
| L3 | 9.46 | 94.64 | 2.21 | 88.44 | 9.77 | 97.71 |
| L4 | 8.99 | 89.9 | 2.7 | 108.08 | 10.68 | 106.81 |
| L5 | 9.24 | 92.36 | 2.22 | 88.64 | 8.93 | 89.32 |
| L6 | 8.83 | 88.35 | 2.35 | 94.07 | 10.92 | 109.22 |
| M1 | 89.11 | 89.11 | 22.39 | 89.55 | 87.44 | 87.44 |
| M2 | 92.4 | 92.4 | 21.81 | 87.25 | 91.12 | 91.12 |
| M3 | 87.92 | 87.92 | 22.8 | 91.22 | 86.67 | 86.67 |
| M4 | 97.72 | 97.72 | 24.21 | 96.86 | 95.57 | 95.57 |
| M5 | 89.86 | 89.86 | 24.14 | 96.57 | 92.06 | 92.06 |
| M6 | 93.34 | 93.34 | 26.65 | 106.58 | 96.35 | 96.35 |
| H1 | 1514.37 | 94.65 | 376.64 | 94.16 | 1450.7 | 90.67 |
| H2 | 1391.45 | 86.97 | 405.32 | 101.33 | 1560.01 | 97.5 |
| H3 | 1553.22 | 97.08 | 395.67 | 98.92 | 1483.94 | 92.75 |
| H4 | 1522.48 | 95.16 | 377.17 | 94.29 | 1517.16 | 94.82 |
| H5 | 1577.9 | 98.62 | 355.96 | 88.99 | 1459.01 | 91.19 |
| H6 | 1416.47 | 88.53 | 363.34 | 90.83 | 1736.15 | 108.51 |