Table 3. Trace element compositions (ppm) of Triassic sandstones from the Hexi Corridor and the Yaoshan section

|  |  |  |
| --- | --- | --- |
| Sample ID | Location | Trace elements (ppm) |
| Sc | Co | Rb | Sr | Y | Th | U | Nb | Zr | Hf | Ba |
| H1 | Shuanglonggou | 5.13  | 4.22  | 84.40  | 141.00  | 13.80  | 9.63  | 1.48  | 8.07  | 31.10  | 1.25  | 1026.00  |
| H2 | Tiaozigou | 9.28  | 8.90  | 97.90  | 261.00  | 18.30  | 8.24  | 1.42  | 9.70  | 74.70  | 2.39  | 987.00  |
| H3 | Tiaozigou | 3.48  | 3.23  | 81.00  | 177.00  | 10.20  | 7.65  | 1.26  | 5.58  | 33.80  | 1.29  | 656.00  |
| H4 | Dongqinggou | 7.48  | 10.40  | 70.80  | 205.00  | 11.50  | 7.12  | 1.50  | 8.01  | 75.60  | 2.53  | 794.00  |
| H5 | Dongqinggou | 5.07  | 7.93  | 54.10  | 42.60  | 10.20  | 7.41  | 1.67  | 7.39  | 76.30  | 2.45  | 161.00  |
| H6 | Mahuanggou | 4.33  | 5.77  | 47.90  | 116.00  | 13.60  | 5.35  | 1.60  | 6.29  | 47.90  | 1.58  | 566.00  |
| H7 | Mahuanggou | 2.72  | 4.05  | 56.20  | 89.10  | 7.96  | 5.34  | 1.31  | 3.85  | 46.80  | 1.47  | 932.00  |
| E1 | Yaoshan | 2.61  | 2.57  | 63.60  | 103.00  | 7.89  | 5.08  | 1.01  | 4.46  | 60.10  | 2.04  | 789.00  |
| E2 | Yaoshan | 4.87  | 4.04  | 75.90  | 68.20  | 12.50  | 8.29  | 1.48  | 9.91  | 91.00  | 3.06  | 512.00  |
| E3 | Yaoshan | 4.72  | 5.89  | 62.60  | 60.60  | 14.30  | 11.00  | 1.92  | 12.80  | 137.00  | 4.40  | 464.00  |
| E4 | Yaoshan | 1.60  | 3.65  | 54.60  | 66.40  | 6.89  | 4.80  | 1.19  | 3.13  | 49.00  | 1.64  | 704.00  |
| E5 | Yaoshan | 6.58  | 5.57  | 66.00  | 240.00  | 13.10  | 8.77  | 2.49  | 9.74  | 82.90  | 2.77  | 1794.00  |
| Detection Limit (Unit:ppm) | 0.001  | 0.002 | 0.001 | 0.01 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.012 |