**Table 2 Zircon Lu-Hf isotopes of the Taolin intrusion**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Spot** | **Age (Ma)** | **176Yb/177Hf** | **176Lu/177Hf** | **176Hf/177Hf** | **2σ** | **176Hf/177Hf(t)** | **εHf(t)** | **TDM1 (Ma)** | **TDM2 (Ma)** | ***f*Lu/Hf** |
| 18TL01-3 | 125 | 0.039530 | 0.000949 | 0.282000 | 0.000019 | 0.281998 | -24.6 | 1758 | 2739 | -0.97 |
| 18TL01-8 | 123 | 0.029802 | 0.000710 | 0.282020 | 0.000015 | 0.282019 | -23.9 | 1720 | 2695 | -0.98 |
| 18TL01-10 | 125 | 0.068797 | 0.001621 | 0.282003 | 0.000028 | 0.281999 | -24.6 | 1787 | 2737 | -0.95 |
| 18TL01-12 | 129 | 0.057799 | 0.001430 | 0.282030 | 0.000024 | 0.282027 | -23.5 | 1738 | 2672 | -0.96 |
| 18TL01-16 | 128 | 0.070505 | 0.001734 | 0.281933 | 0.000028 | 0.281929 | -27.0 | 1890 | 2888 | -0.95 |
| 18TL01-21 | 129 | 0.092132 | 0.002320 | 0.281984 | 0.000028 | 0.281978 | -25.2 | 1847 | 2779 | -0.93 |
| 18TL01-23 | 135 | 0.067990 | 0.001588 | 0.281949 | 0.000023 | 0.281945 | -26.3 | 1860 | 2849 | -0.95 |
| 18TL01-25 | 128 | 0.102208 | 0.002356 | 0.281928 | 0.000020 | 0.281922 | -27.2 | 1929 | 2903 | -0.93 |
| 18TL01-28 | 127 | 0.053981 | 0.001285 | 0.281997 | 0.000019 | 0.281994 | -24.7 | 1778 | 2746 | -0.96 |
| 18TL01-29 | 129 | 0.024005 | 0.000595 | 0.282037 | 0.000018 | 0.282036 | -23.2 | 1691 | 2653 | -0.98 |
| 18TL02-3 | 129 | 0.093187 | 0.001971 | 0.282165 | 0.000017 | 0.282161 | -18.8 | 1571 | 2374 | -0.94 |
| 18TL02-4 | 128 | 0.127540 | 0.002750 | 0.282101 | 0.000024 | 0.282094 | -21.2 | 1699 | 2521 | -0.92 |
| 18TL02-5 | 129 | 0.087380 | 0.001909 | 0.282171 | 0.000017 | 0.282166 | -18.6 | 1561 | 2362 | -0.94 |
| 18TL02-8 | 127 | 0.122853 | 0.002798 | 0.282103 | 0.000023 | 0.282097 | -21.1 | 1698 | 2517 | -0.92 |
| 18TL02-9 | 129 | 0.100719 | 0.002256 | 0.282149 | 0.000022 | 0.282144 | -19.4 | 1607 | 2412 | -0.93 |
| 18TL02-11 | 134 | 0.166940 | 0.003796 | 0.282011 | 0.000029 | 0.282002 | -24.3 | 1884 | 2722 | -0.89 |
| 18TL02-15 | 129 | 0.079864 | 0.001727 | 0.282181 | 0.000017 | 0.282176 | -18.2 | 1540 | 2340 | -0.95 |
| 18TL02-21 | 130 | 0.138700 | 0.003045 | 0.282083 | 0.000025 | 0.282076 | -21.8 | 1739 | 2561 | -0.91 |
| 18TL02-23 | 127 | 0.095596 | 0.002150 | 0.282152 | 0.000024 | 0.282147 | -19.3 | 1598 | 2406 | -0.94 |
| 18TL02-26 | 128 | 0.106791 | 0.002345 | 0.282138 | 0.000021 | 0.282133 | -19.8 | 1627 | 2437 | -0.93 |
| 18TL03-3 | 131 | 0.112622 | 0.002415 | 0.282116 | 0.000020 | 0.282110 | -20.5 | 1662 | 2485 | -0.93 |
| 18TL03-9 | 130 | 0.102130 | 0.002246 | 0.282152 | 0.000019 | 0.282147 | -19.3 | 1602 | 2404 | -0.93 |
| 18TL03-11 | 134 | 0.099676 | 0.002125 | 0.282132 | 0.000019 | 0.282127 | -19.9 | 1625 | 2446 | -0.94 |
| 18TL03-12 | 134 | 0.110040 | 0.002426 | 0.282132 | 0.000019 | 0.282126 | -19.9 | 1639 | 2448 | -0.93 |
| 18TL03-13 | 125 | 0.045154 | 0.001039 | 0.282159 | 0.000018 | 0.282157 | -19.0 | 1542 | 2387 | -0.97 |
| 18TL03-15 | 130 | 0.140278 | 0.002903 | 0.282214 | 0.000022 | 0.282206 | -17.2 | 1542 | 2271 | -0.91 |
| 18TL03-18 | 134 | 0.142958 | 0.003498 | 0.282029 | 0.000023 | 0.282020 | -23.7 | 1842 | 2681 | -0.89 |
| 18TL03-19 | 125 | 0.110000 | 0.002277 | 0.282154 | 0.000025 | 0.282149 | -19.3 | 1600 | 2403 | -0.93 |
| 18TL03-20 | 134 | 0.091144 | 0.001999 | 0.282162 | 0.000019 | 0.282157 | -18.8 | 1578 | 2380 | -0.94 |
| 18TL03-23 | 127 | 0.083840 | 0.001832 | 0.282173 | 0.000018 | 0.282169 | -18.5 | 1554 | 2357 | -0.94 |
| 18ML-2 | 134 | 0.055701 | 0.001431 | 0.282014 | 0.000022 | 0.282011 | -24.0 | 1761 | 2705 | -0.96 |
| 18ML-5 | 133 | 0.053198 | 0.001311 | 0.282009 | 0.000017 | 0.282005 | -24.2 | 1763 | 2717 | -0.96 |
| 18ML-8 | 124 | 0.107967 | 0.002458 | 0.282007 | 0.000021 | 0.282001 | -24.5 | 1821 | 2731 | -0.93 |
| 18ML-10 | 127 | 0.065511 | 0.001610 | 0.282041 | 0.000018 | 0.282037 | -23.2 | 1732 | 2650 | -0.95 |
| 18ML-12 | 127 | 0.054551 | 0.001350 | 0.282056 | 0.000018 | 0.282053 | -22.6 | 1698 | 2615 | -0.96 |
| 18ML-16 | 130 | 0.037588 | 0.000922 | 0.282058 | 0.000018 | 0.282056 | -22.5 | 1677 | 2607 | -0.97 |
| 18ML-18 | 129 | 0.043222 | 0.001092 | 0.282051 | 0.000018 | 0.282048 | -22.8 | 1695 | 2625 | -0.97 |
| 18ML-21 | 131 | 0.039127 | 0.001049 | 0.282088 | 0.000017 | 0.282085 | -21.4 | 1641 | 2541 | -0.97 |
| 18ML-26 | 126 | 0.037368 | 0.000977 | 0.282036 | 0.000016 | 0.282033 | -23.4 | 1710 | 2660 | -0.97 |
| 18ML-29 | 130 | 0.057718 | 0.001379 | 0.282016 | 0.000019 | 0.282013 | -24.0 | 1756 | 2703 | -0.96 |