**Table S2**. Sr, Nd and Pb isotope data for selected granites from Xiahualing, South China

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **ZK65-1** | **ZK65-2** | **ZK65-3** | **ZK57-2** |
| 87Sr/86Sr | 1.344995 | 1.534826 | 1.89228 | 1.128454 |
| Error (2σ) | 0.000013 | 0.000016 | 0.000016 | 0.000014 |
|  |  |  |  |  |
| Sm/Nd | 0.19 | 0.20 | 0.09 | 0.19 |
| 147Sm/144Nd | 0.219191 | 0.188579 | 0.221853 | 0.166596 |
| 143Nd/144Nd | 0.512182 | 0.512295 | 0.512212 | 0.512269 |
| Error (2σ) | 0.000015 | 0.000010 | 0.000012 | 0.000014 |
| (143Nd/144Nd)i | 0.511963 | 0.512107 | 0.511990 | 0.512102 |
| εNd (t) | -9.3 | -6.5 | -8.8 | -6.6 |
| TDM2 (Ma) | 1702 | 1474 | 1658 | 1481 |
|  |  |  |  |  |
| 206Pb/204Pb | 19.665 | 19.624 | 19.670 | 19.791 |
| 207Pb/204Pb | 15.834 | 15.816 | 15.847 | 15.826 |
| 208Pb/204Pb | 39.795 | 39.478 | 39.736 | 39.622 |
| (206Pb/204Pb)i | 18.654 | 18.523 | 18.648 | 18.564 |
| (207Pb/204Pb)i | 15.784 | 15.762 | 15.797 | 15.765 |
| (208Pb/204Pb)i | 39.273 | 39.109 | 39.222 | 39.101 |
| μ | 9.80 | 9.77 | 9.83 | 9.77 |
| ω | 40.27 | 40.13 | 40.23 | 39.88 |

Initial Pb isotopic compositions were calculated by the model following [105].

**Reference**

105 DePaolo,D.J.;Wasserburg,G.J.Ndisotopicvariationsandpetrogeneticmodels. *Geophys. Res. Lett.* **1976**, *3*,249–252.