

Table A1 LA-ICPMS analytical settings and conditions for U–Pb zircon dating.

Laser Ablation System	
Model	New Wave Research NWR213
Laser type	UV 213 nm (frequency quadrupled Nd-YAG laser)
Fluence	3.9 J/cm ²
Repetition rate	10 Hz
Spot size	25 µm
Ablation time	8 s (Pre-ablation) + 10 s
He gas flow rate	1.0 L / min
Inductively Coupled Plasma Mass Spectrometer	
Instrument	Agilent 7700x
Forward power	1400 W
Monitor elements	²⁰² Hg, ²⁰⁴ (Hg + Pb), ²⁰⁶ Pb, ²⁰⁷ Pb, ²⁰⁸ Pb, ²³² Th, ²³⁸ U
Ar Gas flow rate	
Plasma	15.00 L / min
Auxiliary	0.9 L / min
Carrier	0.9–1.1 L / min
Make-up	0.5 L / min
Scan/Detector mode	Peak jumping/ Pulse counting
Jumping/Dwell time	13 ms/1.3 s
Standard Materials	
Primary standard	NIST SRM 610 glass nomarized by 91500 zircon
%2SD	²⁰⁶ Pb/ ²³⁸ U ²⁰⁷ Pb/ ²⁰⁶ Pb ²⁰⁸ Pb/ ²³² Th
	1.7–2.8 1.4–3.1 1.2–2.7
	91500 zircon
	²⁰⁷ Pb/ ²³⁵ U weighted mean: 1052 ± 46 Ma (N = 4; 2σ)
Secondary standard	²⁰⁶ Pb/ ²³⁸ U weighted mean: 1051 ± 17 Ma (N = 4; 2σ)
	OD-3 zircon
	²⁰⁶ Pb/ ²³⁸ U weighted mean: 32.7 ± 1.1 Ma (N = 4; 2σ)
Data Processing	
Normalization value	²⁰⁶ Pb/ ²³⁸ U: 0.2236
Common Pb correction	No common Pb correction
Uncertainty	dates and isotopic ratios are estimated at 2SD (standard deviation)