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ROM-16401 Zircon Reference Material

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After 30 years of use, and with citations by over 5700 publications, the supply of the 91500 zircon Reference Material is now exhausted. Here we introduce the ROM-16401 zircon crystal, which is intended as a replacement for what has been the most widely used U-Pb calibration material of recent decades. Both of these single crystal materials were collected from the same locality during the same sampling expedition in 1930. The age of ROM-16401 has now been measured by five independent ID-TIMS laboratories using established chemical abrasion techniques, yielding $^{206}Pb/^{238}U$ and $^{207}Pb/^{206}Pb$ age results of 1063.6 Ma and 1066.3 Ma, respectively. These values are nearly indistinguishable from those of the 91500 Reference Material. With a total mass of 299 grams, the ROM-16401 will be available for global distribution for many decades to come. Like its predecessor, it is planned that this material will be disturbed by IAGeo.com.