



Figure S1. Session-by-session summary of La Posta biotite secondary reference material analyses acquired over a three-year period (14 sessions). Upper panel: isochron ages per session compared to the weighted mean age of 93.9 ± 1.2 Ma (2σ) and the ID-TIMS reference value of 93.8 ± 2.5 Ma (Walawender et al., 1990). Lower panel: regression intercepts ($^{87}\text{Sr}/^{86}\text{Sr}$) per session compared to the weighted mean of 0.7045 ± 0.0018 (2σ) and the ID-TIMS reference value of 0.70483 ± 0.0005 (Walawender et al., 1990). Green bars indicate sessions used in both calculations; blue bars indicate sessions excluded from the intercept weighted mean. The consistency of both age and intercept values across sessions demonstrates robust long-term analytical stability.