Supplement 5. Procedures for Sampling Desiccated Potato Remains for Starch Analysis.

Melton and Biwer removed a small sample of the potato in the wet lab facilities of the UCSB-ISL using a metal toothpick sterilized via standard laboratory procedures described in the manuscript. The sample was immediately placed into a microcentrifuge tube to which one to two drops of a 1:1 glycerin to water solution were added to facilitate slide mounting. A pipettor equipped with a sterile pasteur pipette was used to transfer the mixture to slides for identification; slide liquid was covered with a glass cover slip and sealed with clear nail polish. Identifications were made using a Brunel SP-400 Metallurgical Microscope (x50-x600) equipped with transmitted and incident illumination systems and polarization filters for each system. Several micrographs were taken at 200x magnification under non-polarized and polarized light to facilitate comparison with morphometric expectations for *chuño* starches.