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ALTECA Cafe
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1/16/2018

REPORT OF MICROSCOPIC EXAMINATION

Claim #1/16/2018

Lab Number: 12345-1-1

ALTECA Cafe requested Forensic analysis for foreign material in found in food. The sample was thoroughly examined via stereo microscopy, Nicolet iS50 FTIR (Fourier Transform Infra-Red) analysis, SEM/EDS (Scanning Electron Microscope/Energy Dispersive Spectroscopy), Blood/Saliva residue testing via RSID (Rapid Stain Identification) reader and cook/bake test.

ALTECA, Ltd. received the sample on 1/15/18 in good condition at room temperature. The object was removed from the packaging, examined and photographed under high magnification. During the initial examination, the submission consisted of a hamburger product containing a unknown foreign object that was hard and solid, and white in color. The object was very sturdy and did not breakdown or crack under pressure. The object had a rectangular shape and under high magnification, appeared to be consistent with a bone fragment. To confirm this, the object was analyzed using the FTIR system, and matched bone at a 92% quality match. This was further confirmed using the SEM/EDS system, which found the composition to be primarily calcium and phosphorous, which are the primary constituents of bone. The submission states the client allegedly bit into the object and breaking a tooth. A saliva residue test was completed and found the presence of human saliva on the object, but a blood residue test showed the object was not exposed to blood. The object was tested in the cook/bake test and the result was positive.

I concluded from the above observations and tests, with a reasonable degree of scientific certainty, that the object was a bone fragment that was exposed to human saliva, and was cooked/baked with the product.

This report was based on the above submitted sample being representative of all original evidence. If you have questions or comments concerning the above observations and conclusions, please contact us at your convenience.

Respectfully,

A handwritten signature in black ink, appearing to read 'Andrew Hudson'.

Andrew Hudson

A handwritten signature in black ink, appearing to read 'Lynn S. Bates'.

Dr. Lynn S. Bates