

MEASUREMENT OF FATTY ACIDS
IN TOENAIL CLIPPINGS USING GC-MS

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ABSTRACT

Omega-3 fatty acids play an important role in human health and nutrition. Here, we investigated human toenail clippings as a potential, non-invasive and cumulative biomonitor for fatty acids, and successfully developed a method to extract fatty acids and quantified them by gas chromatography-mass spectrometry. Although omega-3 fatty acids were not detected in the nail samples, the nail may still prove to be a biomonitor for them if the percent recoveries and detection limits could be improved.