# Measurement of $^{236}U$ in Human Tissue Samples Using Solid Phase Extraction Coupled to ICP-MS

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$^{236}U$ is present at ultra-trace levels in typical environmental and biological samples. Typically, it has been measured by highly sensitive techniques, such as accelerator mass spectrometry. This paper reports the measurement of $^{236}U$ in 20 human tissue samples using a sector field ICP-MS following automated SPE separation. The tissue samples were selected from one USTUR case, representing tissues/organs that are important for internal radiation assessment. Another uranium isotope, $^{235}U$, was also measured in the samples. The results for $^{235}U$ were compared with those obtained by alpha spectrometry. For most cases, results from the two methods were comparable, indicating that the measurement of $^{236}U$ in the samples is reliable.

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