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**^{14}C Dating of Archaeological Samples by AMS of
Tokyo University*¹**

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With an internal beam monitor method, a technique similar to that applied to ^{10}Be , it is possible to obtain reasonably precise measurements of $^{14}\text{C}/^{12}\text{C}$. The typical reproducibility was about $\pm 2\%$ for $^{14}\text{C}/^{12}\text{C}$ measurements of standard samples, and the best background level was $^{14}\text{C}/^{12}\text{C} < 3 \times 10^{-16}$ which corresponded to an age of more than 67000 years. ^{14}C measurements were attempted on some archaeological samples. Two of them were charred seeds and pieces of wood, which gave results close to the background level. The other two samples were small pieces of skeletons of human hunter gatherers, from which collagen was extracted and $^{14}\text{C}/^{12}\text{C}$ ratios were measured.

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