

Title	^{14}C dating of archaeological samples by AMS of Tokyo University
Sub Title	
Author	小林, 紘一(Kobayashi, Koichi) 吉田, 邦夫(Yoshida, Kunio) 今村, 峯雄(Imamura, Mineo) 永井, 尚生(Nagai, Hisao) 吉川, 英樹(Yoshikawa, Hideki) 山下, 博(Yamashita, Hiroshi) 沖崎, 昌平(Okizaki, Shohei) 本田, 雅健(Honda, Masatake)
Publisher	共立薬科大学
Publication year	1988
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.33 (1988.) ,p.178- 178
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000033-0178

慶應義塾大学学術情報リポジトリ(KOARA)に掲載されているコンテンツの著作権は、それぞれの著作者、学会または出版社/発行者に帰属し、その権利は著作権法によって保護されています。引用にあたっては、著作権法を遵守してご利用ください。

The copyrights of content available on the KeiO Associated Repository of Academic resources (KOARA) belong to the respective authors, academic societies, or publishers/issuers, and these rights are protected by the Japanese Copyright Act. When quoting the content, please follow the Japanese copyright act.

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

Koichi KOBAYASHI*², Kunio YOSHIDA,*³ Mineo IMAMURA*⁴, Hisao NAGAI*⁵,
Hideki YOSHIKAWA, Hiroshi YAMASHITA*³, Shohei OKIZAKI*⁵,
and Masatake HONDA*⁵

小林絃一*², 吉田邦夫*³, 今村峰雄*⁴, 永井尚生*⁵
吉川英樹, 山下 博*³, 沖崎昌平*⁵
本田雅健*⁵

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.

*¹ 本報告は *Nuclear Instruments and Methods in Physics Research* **B29** 173–178, (1987) に発表.
*² 東京大学原子力研究総合センター
*³ 東京大学理学部
*⁴ 東京大学付属原子核研究所
*⁵ 日本大学文理学部