## The University of Waikato Radiocarbon Dating Laboratory



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## Report on Radiocarbon Age Determination for Wk-

18031

( AMS measurement by IGNS [NZA-23887] )

Submitter	S Boreham	
Submitter's Code	Liugang001	
Site & Location	Unknown, China	
Sample Material	Paper (parchment)	
<b>Physical Pretreatment</b>	Visible contaminants removed. Sample broken up.	
Chemical Pretreatment	Sample was washed in hot 10% HCl, rinsed and treated with hot 0.5% NaOH. The	

$d^{14}C$ $\delta^{13}C$ $D^{14}C$	$-28.0 \pm 3.5$ $-26.6 \pm 0.2$	%0
D <sup>+</sup> C % Modern	$-27.6 \pm 3.8$ $97.2 \pm 0.4$	
Result	225 ± 31 BP	

NaOH insoluble fraction was treated with hot 10% HCl, filtered, rinsed and dried.

## Comments

7/2/06

- Result is *Conventional Age or % Modern* as per Stuiver and Polach, 1977, Radiocarbon 19, 355-363. This is based on the Libby half-life of 5568 yr with correction for isotopic fractionation applied. This age is normally quoted in publications and must include the appropriate error term and Wk number.
- Quoted errors are 1 standard deviation due to counting statistics multiplied by an experimentally determined Laboratory Error Multiplier of 1
- The isotopic fractionation,  $\delta^{13}C$ , is expressed as % wrt PDB.
- Results are reported as % *Modern* when the conventional age is younger than 200 yr BP.

