

Rafter Radiocarbon Laboratory

Price List

Version: 1st July 2025 | Valid until 30th June 2026

Sample Type	Sample Material & Additional Methods	Sample Mass Required	Price per sample \$NZD		
			Submission of 1-5 samples	Submission of 6-10 samples	Submission of 11+ samples
Organic carbon (needs pre-treatment) Acid wash, acid/alkali/acid, humic acids available. We DO NOT pick fragments from sediments/soils/peats	Charcoal	10-50 mg	\$1,100	\$1,050	\$950
	Plant	10-50 mg			
	Peat	100-1000 mg			
	Sediment	1-3 g			
	Wood	50-300 mg			
Inorganic carbon	Shell, foram, carbonate, coral	10 mg			
Collagen	Bone, ivory, antler, teeth	500-3000 mg	\$1,395	\$1,290	\$1,165
	δ¹³C, δ¹⁵N, C/N ratio (with dating) Includes preparation and measurements by IRMS		+\$85		
	Bone sample preparation for δ¹³C, δ¹⁵N, C/N ratio analysis (no dating)		+500		
	Molecular weight separation		+\$625	+\$445	+\$395
Antiquities <i>Note antiquity samples require additional processing to remove preservatives vs other materials</i>	Leather, textiles, lacquer, paper, wood	15 mg	\$1,295	\$1,245	\$1,125
	Antiquity bone/ivory/antler/teeth	500-3000 mg	\$1,595	\$1,490	\$1,345
Water (DIC) - The IRMS δ ¹³ C determination supplied at no extra cost with the radiocarbon. d13C result is a single determination from a split of the sample CO ₂ gas (standard error 0.3‰) - Water with TDIC < 0.5 mmol/kg H ₂ O will incur a surcharge as it requires combining multiple aliquots to obtain sufficient material for a standard AMS ¹⁴ C determination. - Please be aware that samples with such low DIC content are also at higher risk of contamination during collection and preparation. - δ ¹³ C bicarbonate available from our Stable Isotope Laboratory stableisotopes@gns.cri.nz		250-500 ml	\$950	\$900	\$810
	Hydrogen sulphide removal (per sample)		+\$250		
	Multiple extractions needed (per additional extraction)		+\$250		
CO₂ from air/CO₂ in sodium hydroxide		Contact lab	\$950	\$900	\$805
CO₂ ampoules (requires clean up)		Contact lab	\$675	\$625	\$560
CO₂ ampoules pre-purified (6mm breakseal, approved labs)		Contact lab	\$550	\$500	\$450
Graphite (approved labs)		Contact lab	\$370	\$315	\$285
Organic carbon pretreated ready to combust (pre-treated, ready to combust, approved submitters) See T&C's for pretreated samples on Submission page. Note the pricing conditions for processing blanks and known age or replicate samples as follows apply: • For batches of 6 or more samples we will prepare and measure 1 blank or known age or replicate sample at no charge • For batches of 5 or fewer samples blanks or known age or replicates will be charged at the same rate as unknown samples	Pretreated, bioproduct verification		\$800	\$750	\$675
Ramped pyrolysis/ Pyrolysis GC-MS available on a collaborative basis			Contact lab	Price on application	
Additional fees (per sample)					
Small samples (<0.2mg graphite realised) Note: Turnaround time will increase				No additional cost	
High Precision measurement (minimum 5 samples) Note: Turnaround time will increase				+30%	
Solvent extraction (removing oil, glue, conservation contaminants). This is included in antiquities at no extra charge				\$250	
δ¹³C, δ¹⁵N, C/N ratio in organic matter (no dating)		Submission of 1-6 samples	\$85		
		Submission of 11-35 samples	\$83		
		Submission of 36+ samples	\$82		