Rafter Radiocarbon Laboratory

Price List

Valid from 1 July 2026 until 30 June 2027

Version: 15 September 2026

Earth Sciences New Zealand Te Whatu Ao

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 Plant Peat Sediment Wood	10–50 mg 10–50 mg 100–1000 mg 1–3 g 50–300 mg	$1,140	$1,085	$995
Inorganic carbon	Shell, foram, carbonate, coral	10 mg			
Collagen	Bone, ivory, antler, teeth	500–3000 mg	$1,440	$1,330	$1,215
	Bone sample preparation for $\delta^{13}C$, $\delta^{15}N$, C/N ratio analysis (no dating)				+515
	Molecular weight separation		+$645	+$460	+$415
Antiquities *Note antiquity samples require additional processing to remove preservatives vs other materials*	Leather, textiles, lacquer, paper, wood	15 mg	$1,335	$1,285	$1,180
	Antiquity bone/ivory/antler/teeth	500–3000 mg	$1,650	$1,535	$1,410
Water (DIC) – The IRMS $\delta^{13}C$ 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_2O 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. – $\delta^{13}C$ bicarbonate available from our Stable Isotope Laboratory stableisotopes@earthsciences.nz		250–500 ml	$980	$930	$845
	Hydrogen sulphide removal (per sample)		+$260		
	Multiple extractions needed (per additional extraction)		+$260		
CO_2 from air/CO_2 in sodium hydroxide		Contact lab	$980	$930	$850
CO_2 ampoules (requires clean up)		Contact lab	$700	$645	$590
CO_2 ampoules pre-purified (6mm breakseal, approved labs)		Contact lab	$570	$515	$475
Graphite (approved labs)		Contact lab	$385	$325	$300
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		$825	$775	$705

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
$\delta^{13}C$, $\delta^{15}N$, C/N ratio in organic matter (additional to radiocarbon analysis)	Submission of 1–5 samples Submission of 6+ samples	$94 $86

Prices are exclusive of import inspection fees, local taxes, withholding taxes and New Zealand GST that may be applicable. All prices are quoted in NZ dollars and may be reviewed at any time.

RAFTER RADIOCARBON LABORATORY
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