

Rafter Radiocarbon Laboratory Price List

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Sample Type	Sample Material & Additional Methods	Sample Mass Required	1-5 Samples \$NZD	6-10 Samples \$NZD	11+ Samples \$NZD
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	\$1,025	\$975	\$880
	Plant	10-50 mg			
	Peat	100-1000 mg			
	Sediment	1-3 g			
	Wood	50-300 mg			
Inorganic carbon	shell, foram, carbonate, coral	10mg			
Collagen	Bone, ivory, antler, teeth	500-3000 mg	\$1,290	\$1,190	\$1,075
	$\delta^{13}\text{C}$, $\delta^{15}\text{N}$, C/N ratio (with dating) Includes preparation and measurements by IRMS		+\$230	+\$140	+\$130
	Molecular weight separation		+\$575	+\$405	+\$365
Antiquities Note antiquity samples require additional processing to remove preservatives vs other materials	leather, textiles, lacquer, paper, wood	15 mg	\$1,195	\$1,145	\$1,035
	antiquity bone/ivory/antler/teeth	500-3000 mg	\$1,475	\$1,375	\$1,240
Sinters, pollen concentration		Contact Lab	price on application		
Water (DIC) - includes the $\delta^{13}\text{C}$ by IRMS (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. $\delta^{13}\text{C}$ bicarbonate available from our Stable Isotope Laboratory		250-500 ml	\$875	\$825	\$745
	Hydrogen sulphide removal (per sample)		+\$230		
	Multiple extractions needed (per additional extraction)		+\$230		
CO₂ from air/CO₂ in sodium hydroxide		Contact Lab	\$875	\$825	\$745
CO₂ ampoules (requires clean up)		Contact Lab	\$625	\$575	\$520
CO₂ ampoules pre-purified (6mm breakseal, approved labs)		Contact Lab	\$510	\$460	\$415
Graphite (approved labs)		Contact Lab	\$340	\$290	\$265
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: <ul style="list-style-type: none"> 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		\$740	\$690	\$625

Ramped pyrolysis/ Pyrolysis GC-MS available on a collaborative basis	Contact Lab	Price on application
Additional fees (per sample)		\$NZD
Small samples (<0.2mg graphite realised) Note: Turnaround time will increase		+15%
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		+\$230
$\delta^{13}\text{C}$, $\delta^{15}\text{N}$, C/N ratio (no dating)		\$575

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.

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