



Faculty of Science & Engineering

Equipment & Analytical Costs for External Clients

Unless otherwise stated, prices are given in New Zealand dollars and are listed exclusive of GST or applicable local tax. Prices are subject to change.

For all instruments and services, users who intend ongoing use or have large scale projects are invited to negotiate a special contracted price.

Chemical Services Unit

AA Analysis

\$100/sample/element for a sample fully-prepared. Multiple samples and sample preparation is negotiable.

User operated: \$50/sample/element

Additional technical assistance: \$75/hour

GC-MS

\$100-\$150/sample depending upon the information required (No data processing is included in this charge). Multiple samples by negotiation.

User operated: \$75/hour or \$200/day (Users supply their own columns).

Training (mandatory): \$150/hour

Additional technical assistance: \$75/hour

HPLC

\$100/sample set of up to 6 samples in the same system plus consumables.

System set-up and sample preparation: \$75/hour (1 hour minimum charge). Larger sets and multiple systems by negotiation.

All rates for HPLC are based upon provision by the client of a column and HPLC-grade solvents.

LC-MSn

Users must supply their own columns plus eluents for liquid chromatography.

Direct infusion plus msn: \$100/sample

Prices for multiple samples can be negotiated.

Liquid Chromatography-Mass Spectrometry: Price upon application.

User operated: \$500/day or part thereof

Training (mandatory): \$150/hour

Additional technical assistance: \$75/hour

High Resolution MS

High Resolution Mass Spectrum by ESI: \$75/sample. Rates for multiple samples can be negotiated.

Protein Molecular Weight Determination: Price upon application.

Other Instruments

IR Spectrometers, UV-VIS Spectrometers, Differential Scanning Calorimeter, Luminescence Spectrometer, Electron Spin resonance Spectrometer, X-Ray Diffractometer, Zeta Particle Sizer.

\$125/hour plus consumables plus technician time at \$75/hour (1 hour minimum charge)

NMR

\$165/hour for acquisition of spectra (1 hour minimum charge) plus \$150/hour for an academic to interpret the spectrum (1 hour minimum charge).

User operated: \$120/hour plus any required training by an academic at \$150/hour.

Biacore SPR Instrument

All users must supply their own consumables (running buffer, sensor chips, coupling reagents). Damage caused by external users because of inappropriate use of solvents or failure to filter will be charged; users will be asked to sign a waiver accepting this condition. Basic Training is mandatory.

Instrument usage: \$200/day or part thereof.

Additional technical assistance: \$75/hour

Users who intend extended use of this facility may negotiate a price.

Training Fee Schedule

Basic course (covers manual operation):

\$250/individual

Concentration assays (includes automated assays and surface preparation): \$350/individual

Kinetic assays: \$350/individual

Analyte Recovery: \$350/individual

MALDI-TOF

Full Technical Service

With full service from the unit's technical staff, costs are as follows:

Molecular Weight Determination

1-5 samples \$105 /sample

6 + samples \$95 /sample

Tryptic Digestion

1-10 samples \$125 /sample

11-20 samples \$110 /sample

21 + samples \$95 /sample

Peptide Mass Fingerprinting

1-10 samples \$95 /sample

11-20 samples \$85 /sample

21 + samples \$80 /sample

Tandem Mass Spectrometry

1-10 samples \$95 /ion

11-20 samples \$85 /ion

21 + samples \$80 /ion

In-depth analysis \$100 /hr

User Operated Operation

Training (mandatory): \$100/hour plus reagent costs

Instrument usage: \$150/hour

Contract Instrument Use

For extensive use a contract may be negotiated and will vary with amount of use and goods and services required.

ICP-MS

ICP/MS: \$30/sample

Laser Ablation/ICP/MS: \$880/day or part thereof

ICP/MS in DRC mode (using ammonia): \$38/sample

Waikato DNA Sequencing Facility

Core Services Pricing

All services include options for electropherogram printouts, secure FTP file hosting and the emailing of generated FASTA files. Failed reactions will be resetup or rerun once (dependant on template and primer availability), with further work at the discretion of the WDSF and its staff.

• Full Sequencing: \$20/sequencing reaction. A single dye terminator sequencing reaction.

• Genotyping Reactions: \$10/sample. Single genotyping (Fragment or SNP) reactions with result collation.

• Run only: \$8/sample. For those performing their own sequencing or genotyping reactions.

• Quantitations: Complimentary. Each template is eligible for free quantitation by fluorometry.

High Throughput Pricing

For large numbers of similar templates like clone libraries, environmental collections or population profiling. Failed HT reactions or runs to be resetup or rerun at the sole discretion of the WDSF.

Please contact us at sequence@waikato.ac.nz or 07 838 4757 for details or to establish HT pricing for your group or project.

Science & Engineering Services

Earth & Ocean Sciences Services

Nitrogen (N) and carbon (C) analysis by LECO furnace methods

- 1-10 samples \$20/sample
- 11-100 samples \$16
- > 100 samples \$13

These are the prices for dried and ground material for direct weighing. We can grind/ball mill the samples here for you at an extra cost of \$4-10 per sample.

Mineral identification by XRD

Determination of very fine grained minerals not identifiable by petrographic microscope.

- XRD chart \$50 each
- XRD chart and interpretation \$100 each

Composition of earth materials for major and trace elements by XRF

Rocks, sands, soils. Price depends on whether major or trace elements are required, and number of samples.

Normal rates are \$150/sample for major and trace analyses.

Mineral separation and thin sections

Mineral separation: Dependant of rock type and minerals required.

Standard thin-sections: \$40 each

Polished standard thin-sections: \$50 each

Laser-based particle size analysis of a range of materials

\$60/sample that does not require organic material removed, 1-20 samples

\$50/sample that does not require organic material removed, 21-40 samples

\$40/sample that does not require organic material removed, 41+ samples

\$85/sample that requires organic material removed

Triaxial compressive stress testing of rocks and soils

Price on enquiry

Shallow water survey of bathymetry by Multibeam

Price on enquiry

Oxygen and carbon stable isotope analysis

CO_2 gas ($\delta^{13}C$ and $\delta^{18}O$): \$30/sample

Carbonates ($\delta^{13}C$ and $\delta^{18}O$): \$60/sample

Waikato Stable Isotope Unit

Routine* C or N isotope analysis and N Content

- 1-50 samples: \$NZ18 or \$A18/sample (NZ and Australia); \$US15 for others
- 51-100 samples: \$NZ15 or \$A15/sample (NZ and Australia); \$US13 for others
- 101-300 samples: \$NZ13 or \$A13/sample (NZ and Australia); \$US12 for others
- >300 samples: \$NZ12 or \$A12/sample (NZ and Australia); \$US10 for others

* Routine samples are dry plant or animal samples for which C and N content is known within reasonable limits. If sample is not routine, we will provide a specific quotation for the analysis.

Other service charges

- *Grinding (depending on sample type):* \$4 - \$10 (\$NZ, \$A, or \$US)
- *Second isotope:* 60% extra
- *Precision %N:* No extra charge
- *Precision %C:* Extra \$10

Routine-precision ^{13}C in breath ($\pm 1.05\%$)

- 1-10 subjects \$NZ20
- 11-100 subjects \$NZ15
- >100 subjects \$NZ12

Routine-precision ^{18}O in water ($\pm 1.05\%$)

- 1-50 samples \$NZ20.00
- >50 samples \$NZ15.00
- >100 samples \$NZ12.00

Waikato Electron Microscope Facility

Scanning Electron Microscope

- 1-2 samples \$350
- 3-4 samples \$425

\$350.00/hr

CPD (Critical Point Drying) specimen prep:

- 1-5 samples \$185.00

Transmission Electron Microscope

- Price on application.

Waikato Confocal Microscopy & Imaging Facility

Confocal Microscopy

\$70 per hour. An introductory fee of \$40 per hour for the first 5 hours of confocal microscope usage. Training on the instrument is included at this time. *Additional technical assistance (after the first five hours):* \$25/hour

Photomicroscopy and Photography

Including epi-fluorescence and all transmitted light Modes

High resolution still, time-lapse and video Imaging

Extended depth-of-field imaging using

AutoMontage

Photomacrography, close-up and general technical photography.

Shorter tasks are charged at \$60 per hour with a minimum charge of \$30. Additional time is assessed in quarter-hourly increments. Charging for longer periods, including for time-lapse photography, is by negotiation.

Certain facilities may be available to approved users to operate the equipment themselves. Access and pricing are negotiable.

Waikato Radiocarbon Dating Laboratory

Radiometric determinations: \$525/sample

AMS determinations: \$775/sample

For a fast turnaround on radiometric determinations an additional express rate of \$200/sample applies.

Extended counting can be provided for radiometric determinations for an additional charge of \$50/sample (1000 minutes) or \$100/sample (2000 minutes).

For samples imported from overseas an additional MAF import charge of \$35 applies. This is an inspection fee levied by the Ministry of Agriculture and Forestry on all samples imported into New Zealand. If samples in a batch are unsuitable for dating, we reserve the right to charge an inspection fee of \$50 plus the MAF fee. Any samples that have undergone pre-treatment and subsequently found to be unsuitable for dating, or abandoned for other reasons, may incur a partial charge. Typically this is \$100 for the cost of the pre-treatment or \$200 for pre-treatment and combustion but charges will vary depending on the sample type.

Options for pre-treatment procedures

- *Cellulose extraction* (recommended for wood samples): \$100
- *Gelatinisation of bone* (includes N%*, 15N, 13C and C/N analyses): \$175
- *Solvent extraction* (for samples that may be contaminated by oil, glue etc): \$100

* N% analysis is undertaken as a preliminary step to test bone for suitability for dating. If the bone is found to be unsuitable we charge.