



### INTRODUCTION

Cawthron Laboratory Services provides comprehensive testing for food products, with microbiological and food chemistry laboratories on site. We can assist with identification of analytical requirements, the implementation of new fields of testing and interpretation of results.

### ROUTINE TESTING

The food laboratory offers a wide range of routine testing including:

- Nutritional profiles for labelling of product
- Proximates
- Fatty acid profile, including Omega 3 & 6
- Saturated fat
- Dietary fibre
- Edible oil quality parameters
- HMF in honey
- Sugars
- Fish food testing
- Histamine in fish
- Alcohol
- Wine
- Vitamins

A wide range of analytical techniques are available including:

- High Performance Liquid Chromatography (HPLC)
- Gas Chromatography (GC)
- FT – infra red spectrometry
- Thin layer chromatography
- AAS (flame and furnace)
- LCMS
- CO<sup>2</sup> supercritical extraction
- ICP-OES (trace elements)

### MICROBIOLOGY TESTING

Our microbiology laboratory is able to test foods for a full range of organisms, including pathogens, to ensure they comply with New Zealand and international food safety standards.

Our areas of expertise include shelf life testing, challenge and disinfectant testing.

The laboratory offers hygiene monitoring of premises by testing environmental swabs. We are also certified to train production staff in water sampling and swabbing for *Salmonella* and *Listeria* testing.

With overnight courier delivery of samples to our laboratory from all over New Zealand, we service a wide range of food and food supplement clients throughout the country.



### RESEARCH & METHOD DEVELOPMENT TEAM UPDATE

Cawthron has specialised in bringing the power of modern LCMS instruments to bear on novel and complex analytical problems such as the multi-toxin analysis of shellfish. This technology is increasingly becoming the mainstay for reliable cost-effective multi-analyte testing of food.

Our R & D team are in the final stages of completing the validation of the B group vitamins using new technology and methods.

This technology will enable us to offer clients a multi-analyte screen covering the majority of the B group vitamins. This will prove more cost-effective for clients requiring a number of the B group vitamins to be analysed on one product.





## QUALITY CONTROL AND ACCREDITATIONS

Our laboratory is ISO 17025 accredited and is audited annually by IANZ (International Accreditation NZ). We are certified as GMP compliant for the testing of raw materials, finished natural products and dietary supplements.

We are also registered to test for compliance to LAS (Laboratory Approval Scheme) rules and the US-FDA.

Our test methods are fully validated, and are structured around an on-going quality control system, which includes Inter-Laboratory Comparison Programmes (ILCPs).



## SERVICE INFORMATION

### Hours of Operation

Cawthron operates 7 days a week.

Our customer service sample reception area is open from 8.00am to 5.00pm on weekdays and Saturdays 9.00am to 12.00pm. Samples can be received outside these hours by prior arrangement.

### Sample Transfer: Courier Information

Our customer services team can be contacted to arrange delivery of sample containers and co-ordination of sample collection for delivery to our Nelson laboratory.

## Reporting of Results

The standard turn-around time for analysis is 10 working days, however this can be reduced and an express service is available by prior arrangement.

Cawthron is able to offer full electronic result processing for all analyses and can provide reports in both hard copy and electronic format.

## Invoicing and Payment

We offer our clients the option of being invoiced per job, or on a monthly basis covering all the jobs for that month. Payment is required by the 20th of the following month.

## Customer Feedback and Complaints

We have a structured internal process for dealing with feedback and view it as an opportunity to improve our services and systems.

## OTHER ANALYTICAL SERVICES

Cawthron is an independent science organisation providing research based solutions to its customers. Cawthron Laboratory Services is a business group within Cawthron that provides high quality analytical services across a wide range of sectors, including food, natural products (GMP) and microbiology.

Our analytical services include:

- Marine biotoxins – shellfish testing for export and public health purposes; risk management advice; test method development.
- Phytoplankton – early warning systems for the shellfish industry and regulatory bodies; harmful algal blooms; analysis of fresh water algae and toxins.
- Environmental analysis – chemical testing of samples for nutrients and trace elements, for regulators (monitoring).



## CONTACT DETAILS

For enquiries please contact Cawthron Laboratory Services  
Telephone Nelson: 03 548 2839  
Telephone Blenheim: 03 579 2270  
Facsimile: 03 546 9464

Email: [lab@cawthron.org.nz](mailto:lab@cawthron.org.nz)  
Web: [www.cawthron.org.nz](http://www.cawthron.org.nz)  
Cawthron, 98 Halifax Street East, Private Bag 2,  
Nelson, 7042, New Zealand