

TESTING SERVICE SUMMARY

ZESPRI CROP PROTECTION STANDARD (CPS) - FORMULATION SCREENING

Overview

This formulation screening service has been developed by ALS Food NZ (ALS) in conjunction with Zespri, for companies wanting to submit their product/s for review and potential inclusion in the Zespri Crop Protection Standard (CPS) or for reasons such as quality control. A sample of product is supplied to ALS, and is tested for a range of compounds that are of interest to Zespri. Zespri does not receive a copy of the results directly. A report of the results is given to the submitter to be used as part of the Zespri CPS product review request.

The testing process is explained below. Please contact the relevant person if you have any questions:

Zespri	ALS
For feedback regarding results and any questions about the CPS approval process	For the sample submission and testing process, and any technical queries about test results
Jemma Budd spraydiary@zespri.com +64 27 464 8770	Steve Howse steve.howse@alsglobal.com +64 27 248 1702

What Testing Is Being Done?

Samples are being tested for a group of about 600 agrichemicals, elements, and heavy metals that are important to Zespri on behalf of growers - to mitigate the risk of unwanted compounds being sprayed on kiwifruit orchards.

The testing is carried out in NZ using High Resolution Mass Spectroscopy and ICP Mass Spectroscopy at our Hamilton laboratory. Three categories of compound are reported:

- **CATEGORY A:** Very confident. The testing method includes an independent testing standard for the reported compound, which is highly likely to be present.
- **CATEGORY B:** Confident. The reported detection is based on untargeted screening and careful interpretation of results by a technical expert. However, the method does not include an independent testing standard. There is a small chance that it is a false positive due to other similar compounds in the sample. Follow up testing can be used to confirm the detection, at an additional cost.
- **CATEGORY C:** Very confident. Elements and heavy metals are detected using an accredited ICP-MS method which includes independent testing standards.

Submitting A Sample

Samples should be taken from finished product in the form that will be sold for use on kiwifruit orchards - ideally from a previously unopened pack of product.

- Mix the product well so all the ingredients are evenly dispersed in it.
- Take a sub-sample of at least 100 mL and place into a new plastic or glass container with a screw top lid that seals well.
- Clearly write a sample identification on the outside of the sample container which matches the sample identification you have written on the submission form.

Samples should be sent to ALS with a completed sample submission form - this can be obtained from ALS's website or by e-mailing Steve Howse using the details above. Along with submitter details, the submission form will ask for the product and manufacturer name for each sample (to be printed on the test report), and its batch number and/or date of manufacture.

Send samples by courier to:

ALS Food NZ
Sample Reception
Ruakura Research Centre
10 Bisley Road
Hamilton, New Zealand

Samples will be stored at ambient temperature for 4 weeks following testing, and will then be disposed of unless other arrangements are made.

Testing

The testing service will be available over the period January to April 2025. Samples will be stored on arrival, and tested in batches to the following schedule:

Samples Received By	Tested In The Period	Reports Provided By
28 February, 2025	3 to 14 March, 2025	14 March, 2025
28 March, 2025	31 March to 11 April, 2025	11 April, 2025
11 April, 2025	14 to 25 April, 2025	25 April, 2025

Any samples received after 11 April 2025 will be at risk of not being completed before Zespri's application cutoff of 1 May 2025.

The test report will be sent by e-mail on a PDF test certificate to the party who has paid for the testing, and any other parties specified on the Sample Submission Form. The test report will show:

1. The identification of the sample/s that have been tested; and
2. Details of any compounds that were detected in those samples.

ALS will not provide results directly to Zespri without prior permission from the party who has paid for the testing.

A full list of compounds that have been tested for (Category A, Category B, and Category C) is available on request.

Cost & Invoicing

Testing will be charged at a rate of \$550 + GST per sample.

An invoice will be sent following completion of testing using details supplied on the Sample Submission Form. For new customers to ALS, payment may be required prior to release of the test report or (at the discretion of ALS) on the 20th of the month following the date of invoice.

All testing will be undertaken in accordance with ALS's standard terms and conditions of trade, available at this link:

- <https://www.analytica.co.nz/about-us/terms-and-conditions/>

Follow Up Testing

If compounds are detected in a sample, further testing may be required to investigate. This is not included in the initial cost of analysis. Costs for this will be quoted on a case-by-case basis, reflecting the requirements agreed with the submitting client (in consultation with Zespri if agreed by the client).