

TESTING SERVICE SUMMARY

ZESPRI CROP PROTECTION STANDARD (CPS) - RESIDUE SCREENING

Overview

ALS-Analytica is supporting companies wanting to apply to Zespri for their product/s to be approved for use on kiwifruit orchards under the Zespri Crop Protection Standard (CPS), by providing a new residue screening service that has been developed in conjunction with Zespri. A sample of product is supplied to ALS-Analytica, and is tested for a range of compounds that are of interest to Zespri for quality reasons. A report of the results is given to the submitter to be used as part of the application for product approval.

This Testing Service Summary explains how the testing service works. If you have any queries, you can contact the following people:

Zespri For result interpretation, and any questions about the CPS approval process	ALS-Analytica Laboratories For the sample submission and testing process, and any technical queries about test results
Morgan Shea morgan.shea@zespri.com +64 27 203 9667	Steve Howse steve.howse@alsglobal.com +64 27 248 1712

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. The testing helps check that Zespri growers are not accidentally applying unwanted compounds to their orchards, which could cause post-harvest quality issues.

There are 3 categories of compound being tested:

- **CATEGORY A:** Compounds that have analytical standards included in the testing method - meaning that any reported detection of that compound will have already been confirmed by the lab using an independent testing standard.
- **CATEGORY B:** Compounds that are detected using an untargeted screening approach - any detection may need to be confirmed with follow-up testing. The follow up testing may confirm the detection or may show that it was a false positive due to other similar compounds in the sample.
- **CATEGORY C:** Elements and heavy metals detected using an accredited ICP-MS method.

The testing is being carried out using High Resolution Mass Spectroscopy and ICP Mass Spectroscopy in ALS-Analytica's Hamilton (NZ) based testing laboratory.

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-Analytica with a completed sample submission form, which can be obtained from ALS-Analytica'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-Analytica Laboratories
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 1 December 2023 to 30 April 2024. Samples will be stored on arrival, and tested in batches, with results being provided on a PDF test certificate by e-mail within 15 working days of samples arriving. Any samples received after 12 April 2024 will be at risk of not being completed before Zespri's application cutoff of 1 May 2024.

The test report will be sent 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-Analytica will not provide results directly to Zespri without 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 \$500 + 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-Analytica, payment may be required prior to release of the test report or (at the discretion of ALS-Analytica) on the 20th of the month following the date of invoice.

All testing will be undertaken in accordance with ALS-Analytica'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. The cost of doing this is not included in the initial cost of analysis and will be quoted on a case-by-case reflecting the requirements agreed with the submitting client (in consultation with Zespri if agreed by the client).