

## Independent Laboratory and Testing

### Laboratories

1. Credible Labs are accredited
  - a. There are around 750 laboratories in NZ with accreditation
  - b. This covers a wide range including some very small laboratories
2. Methods are accredited
  - a. There is only one laboratory in NZ accredited for Fluoroacetate testing
  - b. There are no laboratories in NZ accredited for Fluorocitrite testing
  - c. Not being accredited for a method does not mean you are not capable of carrying out a test

### Landcare Lab

1. They are accredited as a laboratory
2. They are accredited for the Method for testing Fluoroacetate
  - d. method used is 35 years old and not latest practice, using latest technologies for pesticide testing.
  - e. they have not kept up to date
3. They are not accredited for fluorocitrate testing (but were apparently developing this in January 2019)
4. In standard requests from DoC, they do not test for the metabolites or other chemical markers for 1080

### The Laboratory we used

1. Is accredited as a laboratory with international accreditation for quality control and assurance and management kite mark standards as set out in ISO9001; 17025; 27000
2. Is not accredited for the methods of fluorocitrate or for fluoroacetate
  - a. There is no testing done for this in NZ so there is no point
3. Does have expert knowledge and expertise of pesticide analysis including fluorocitrate and fluoroacetate testing
4. Is highly capable and has the latest equipment and standards necessary for the testing for fluorocitrate and fluoroacetate
5. Has expert knowledge of, and is capable of testing for chemical markers in substances including poisons
6. Is part of an international group of companies
  - a. Operates in more than 10 countries and works with a further 10+ countries.

The Test we carried out:

1. Was done by professionals working in an accredited laboratory using the most up to date methods and equipment.
2. Chain of Custody was completed accurately
  - a. This must remain confidential to maintain anonymity of those involved.
3. The report was provided in a handwritten format
  - a. Handwritten forms are less able to be tampered with
4. The template used was an open source commonly used form used in a number of situations.

Fluoroacetate/fluorocitrate:

1. Fluoroacetate breaks down quickly into fluorocitrate in birds, animals and other victims
  - a. The higher the temperature the quicker it breaks down
2. Fluorocitrate is very toxic
  - a. Only low levels in muscle are required to cause death
  - b. Right conditions means it could degrade quickly below levels able to be detected without specialist methods and equipment.
  - c. Stomach/Intestine levels may have higher levels so may remain a little longer in the carcass
  - d. Bone and bone marrow may also carry traces of Fluoroacetate and fluorocitrate after a longer period of exposure to 1080 poison.
3. Fluoroacetate is water soluble, and rapidly metabolizes to fluorocitrate - this is the true poison through Krebs cycle disruption.
4. Adequate sample sizes are essential for valid scientific conclusions
5. There is no accredited laboratory in NZ that is using the latest up to date methods and equipment for fluorocitrate
6. There is no laboratory in NZ capable of or accredited for testing for fluorocitrate
  - a. To use an accredited laboratory would require samples to be sent overseas
  - b. To do this may contravene the CITES laws

Why does this laboratory need to remain confidential?

1. This is a whistleblower situation
2. They have been attacked for standing up before
  - a. Had a bullet posted to them
  - b. Had their tyres slashed
  - c. Has had staff harassed
  - d. Has had their personal property and family threatened

3. They have a multinational/multi-product business they need to protect
4. We are confident of the bonafide credentials of this lab and will continue to use them and to seek out other ways of providing the public with independent testing evidence.
5. We welcome contact from other whistleblowers.