

## DNA Parentage Verification – guidelines for NZ breeders

---

The below NZ DNA genotyping labs provide DNA parentage verification using the International Society of Animal Genetics (ISAG) recognised parentage panel. Using a DNA laboratory that is ISAG compliant means that DNA profiles from other labs (including Australia) can be used for parentage verification.

Most labs have now moved to SNP (pronounced snip) as their primary DNA testing method. Older animals registered with ALCA may only have a microsatellite (MiP) DNA profile available – if this is the case, you will need to parent verify using MiP profiles because SNP and MiP are NOT compatible. If you are using MiP for parentage verification it is suggested that you also get a SNP profile for the calf so that future progeny can be tested using SNP.

Ear punch (wet tissue sample – TSU) is the sample type preferred by most labs although they will accept tail hair and semen samples (surcharges may apply). Where only a small number of animals are being tested then tail hair may still be the simplest approach.

Prices vary between labs, the test being requested and sample type used – check with your preferred lab.

### **Zoetis Animal Genetics**

Dunedin

Toll Free: 0800 228 278

<https://genetics.zoetis.com/NewZealand/>

### **GenomNZ – division of AgResearch**

Mosgiel

Toll Free: 0800 362 522

<https://www.agresearch.co.nz/genomnz>

### **Equine Parentage and Animal Genetic Services Centre**

Massey University

Palmerston North

[http://www.massey.ac.nz/massey/learning/colleges/college-of-sciences/clinics-and-services/equine-parentage-animal-genetics/equine-parentage-animal-genetics\\_home.cfm](http://www.massey.ac.nz/massey/learning/colleges/college-of-sciences/clinics-and-services/equine-parentage-animal-genetics/equine-parentage-animal-genetics_home.cfm)

GeneMark – LIC in Hamilton also provide DNA parentage verification but their G3 DNA panel is not ISAG compliant so is not recommended.

ALCA Guidelines

12 March 2019