

HOW TO REGISTER YOUR DNA/PV BELTED GALLOWAYS - updated 30th August 2022

Traditional manual pedigree recording is synonymous with a degree of pedigree error. It doesn't matter what species or what breed, events happen on farm which lead to incorrect sires and dams being assigned to calves.

With SireTRACE[®] you have access to a DNA fingerprint that distinctly identifies animals. This information is helpful for parentage verification, data banking and animal identification of superior sires in multiple-sire breeding scenarios. The ultimate result is more precise herd management. Cattle registration is not difficult – it only seems that way if you haven't done it before.

As you will be aware, Zoetis have upgraded their DNA testing to the SNP method which has the capability of testing 1000+ gene markers. Whilst they and other labs, have this capability they and other labs abide by ISAG - *International Society of Animal Genetics*, and they all follow the minimum SNP Parentage Panel for PV testing which is 150 markers so, to do the 1000+ gene marker is not automatic with all laboratories and is on request and involves more expense. This is more accurate than the older version of MIP (24 gene markers) DNA.

PV – This is the outcome of matching the DNA's of the Calf with both or one parent.

SNP - This is the DNA method used.

Below explains how the PV & registration process should take place, so your registration can be efficiently processed for you.

For first time submission for SNP PV, collect tail hairs or TSU samples from the Dam and the calf (as the Sire's DNA, if born after the 1.1.2011, should already be on record) and submit with the registration form (available on the website under Forms) to ABGA.

Once the Dam has her DNA profile in the system, there is no need to send another sample for any more of that Dam's calves.

NOTE: Collecting the hairs and TSU samples for the parent DNA may **only have to be done once**, as Zoetis keeps the submitted samples on file. Sometimes the hair testing fails, so it is important to save a second sample stored in a paper bag or postal envelope for future use. Not plastic as the hairs can sweat and the sample is then compromised.

NB Hair samples are best to be taken from 6 months of age, whilst TSU samples can be taken soon after birth.

Instructions for DNA Hair Sample Collection Zoetis

1. Select 20-30 hair follicles (roots) from the switch/brush of the tail, the hair should be clean and dry.
2. Wrap the **hairs** around your finger or pen and pluck with a rapid, sharp motion. You can repeat procedure to obtain the 20-30 hairs for a second (to keep) sample.
3. The hooked or bulbous hair roots from under the skin should be clearly visible.
4. Attach hair to collection kit with label supplied and trim excess hair.
5. A video of this process can be found at genetics.zoetis.com/australia/testing_and_results.aspx under DNA Collection.
6. Complete the ABGA DNA/PV Sample Information Form and post to:
ABGA, ABRI, UNI, ARMIDALE NSW 2351
Or direct to **ZOETIS AUSTRALIA PTY LTD, PO BOX 75, BANYO QLD 4014**

7. In the case of an AI sire Parent Verification and **if born after 1.1.2011** and a hair sample is not available, one whole semen straw will be needed for DNA testing.

Instructions for TSU Sample Collection Zoetis

You will need an applicator for this and for the best instruction information, please refer to the video on the Zoetis website at genetics.zoetis.com/australia/testing_and_results.aspx under DNA Collection.

Once results are received

The results of the DNA & PV will be sent to you in about 4 - 6 weeks along with an invoice from ABGA. Registration Certificates will be forwarded **ONCE the DNA PV and registration payment has been received.**

Commonly Asked Questions

1. What process should I follow if one of the parents DNA sample is not with Zoetis?

If DNA is not at Zoetis, the member will need to contact either ABGA or the external laboratory to have the SNP profile released. If the member isn't the original submitter of samples to the external laboratory, they will have to request the submitter contact the external laboratory on their behalf, seeking approval for the profile to be released.

2. What process should I follow if one of the parents DNA doesn't match?

If there is an anomaly and the nominated parent does not qualify, the member should email through a list of other potential parents. If the member is adamant the initial nomination is correct, then it is suggested that a new sample be taken from the progeny as occasionally a sample collection error is the cause for a disqualification. The member will need to contact ZOETIS for further advice. ZOETIS phone number is 1300 768 400

3. What happens if the sample fails in the laboratory?

As at June 2022, Zoetis advise that this retest will likely be at no cost to the breeder **BUT** the Breeder is to contact Zoetis directly for further advice.

4. If I am unaware of a mismatch until the results are through and now that I know that I can nominate another parent - will there be another fee for this.

At this stage, August 2022 – No.

5. If I am not sure who the parents are, can I put down a couple on the same form at the time of submission?

Yes, you can nominate multiple parents at no extra charge as long as they have DNA profiles listed.

If you have any further questions specifically regarding DNA PV, contact ZOETIS first or your state councillor.