

DNA Results Fact Sheet

*Updated February 2020



To comply with the rules and regulations of Herefords Australia (HAL), all DNA samples must be submitted through the HAL office for testing. The HAL staff will then process and send off your DNA request to the lab. Results of these tests will be returned to the HAL office and be uploaded to the database. You will be emailed the results of your tests. This fact sheet provides information to help you interpret the results.

TEST STATUS:

COMPLETED: The lab has completed the testing of the DNA sample supplied.

INCOMPLETE: Tests are still being processed.

NO RESULT – DNA TEST FAILED: The test was attempted but no result could be determined (this could be due to several factors). A new sample will need to be provided for retesting.

TEST RESULTS:

RECOLLECT: The sample submitted to the lab is not viable and cannot be tested. A new sample will need to be provided for retesting.

CARRIER: This animal is a carrier for the specific genetic condition.

NON-CARRIER (FREE): This animal is free from the specific genetic condition.

QUALIFIED: This parent has not been excluded as the parent of the tested animal. Herefords Australia Regulations recognises a Qualified parent as DNA verified, unless further testing proves otherwise.

EXCLUDED: This parent has been confirmed to be incorrect. Alternative parent/s should be submitted to HAL for further testing to confirm correct parentage (Pedigrees cannot be edited without DNA confirmation).

COMPLETED but NO Qualifying Parents Found: The nominated parent/s have been confirmed to be incorrect. (Note: The lab only tests against the nominated parent, they do not test against all Herefords in the database). Alternative parents should be submitted to HAL for further testing to confirm correct parentage.

NO RESULT: There is a missing piece of information. The parent verification could not be conducted as either the parent or the calf are on incompatible DNA platforms (MIP vs SNP), the parent doesn't have any DNA on file or no parents have been nominated.

HORN/POLL RESULTS:

PcPc, PcPf, PpPf: Homozygous Polled – A 'True Polled' animal and will only produce Polled (or Scurred) calves. They will not produce Horned calves.

Hpc or HPf: Heterozygous Polled – Animal is Polled or Scurred and carries a Polled and Horned gene and can produce Polled, Horned (or Scurred) calves.

HH: Homozygous Horned – The animal is Horned and can produce Horned, Polled (or Scurred) calves.

(For further information on Poll testing, please refer to our SNP POLL Fact Sheet).



HEREFORDS
Australia

16 Uralla Road | Locked Bag 7
Armidale NSW 2350
Phone +61 2 6772 1399 | Fax +61 2 6772 1615

herefordsaustralia.com.au

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FURTHER INFORMATION:

- Only members with Registry Access have the ability to DNA test through Herefords Australia.
- Animals must be in the HAL database before we can request any tests for them.
- Genomic testing can take up to 8 weeks.
- Parent verification (where possible) is always the last step in the process. It normally comes after we have received the genotype and genetic conditions results.
- Interim results are often received from the lab e.g. there are 17 samples and 10 have been analysed. These 10 will be reported on while we wait for the other 7.
- DNA results are returned from the lab to the Herefords office, for loading into HAL database. The results are emailed to the member that requested the test and will be visible on the HAL website.
- Records of your DNA test requests and results can all be found on Hereford Live under *Reports > View Reports*.



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