

There *is* a Difference



**NEOGEN**<sup>®</sup>

# Advanced DNA testing solutions for Feedlot Cattle

The Fastest Way to **Better Results**

Scan to learn more today!



So why should you test with Neogen?...  
**Because 'There is a Difference'**



## Global company, local impact

Neogen Australasia, a subsidiary of Neogen Corporation, is based in Queensland, Australia, and supports the agricultural and food industries across Australia and nearby regions. We offer advanced genomic testing services, including DNA testing for livestock, to help breeders enhance herd quality, productivity, and disease resistance. Our genomic solutions cater to seedstock, commercial, and feedlot programs, optimising beef quality by providing insights into traits such as feed efficiency, carcass quality, and reproductive performance.

Beyond genomics, Neogen Australasia supplies a range of animal health products, including veterinary instruments, biosecurity solutions, and diagnostics to ensure livestock well-being. Our food safety division also provides tools for assessing feed quality and nutritional value, as well as detecting mycotoxins.



# Genomics for Greater Feedlot Efficiency

The development of genomic tests specifically designed for Wagyu and Angus cattle to evaluate their potential for producing high-quality beef throughout the feedlot systems. These tests assess key genetic traits that influence important factors like marbling, feed efficiency, growth rates, and overall carcass quality. By utilising these tests, feedlot owners can make more informed decisions on selecting and managing feeder cattle to achieve the best possible outcomes in terms of beef quality and profitability.

## Key Features of implementing DNA into feedlots:

**Marbling Potential:** The test evaluates genes associated with intramuscular fat (marbling), which is crucial for the premium quality of the meat.

**Feed Efficiency:** It assesses the genetic potential of cattle to convert feed into muscle and fat efficiently, which impacts cost and growth rates.

**Growth Rates:** The test provides insights into the genetic potential for weight gain, allowing feedlots to select cattle that will grow quickly and reach market weight more efficiently.

**Carcass Quality:** Genetic markers related to carcass weights, ribeye area, and other carcass attributes to predict the overall quality of the beef produced.

## What are the benefits?

**Optimised Selection:** Feedlots can use the results to select feeder cattle with the best genetic potential, leading to more consistent and higher-quality beef production.

**Cost Efficiency:** By focusing on cattle with better feed efficiency and growth potential, feedlots can reduce feed costs and improve overall profitability.

**Market Differentiation:** Identifying cattle for premium product, and using genomic testing to enhance beef quality can further differentiate your product in the market.

## How do I get started?

**Sample Collection:** Collect DNA (TSU) samples from the feeder cattle.

**Submission:** Send and submit the samples to breed society and to the Neogen lab for testing.

**Analysis:** The animals genomic profile will be analysed for specific genetic markers associated with the desired traits.

**Results:** Use the results to make informed decisions about which cattle to feed, how to manage them, and when to market them.



### Wagyu Feeder Check

Developed in Australia, by Australians, for use in Wagyu content beef cattle.

Suitable for Wagyu content cattle that are Wagyu x high content *Bos taurus* genetics.

Delivered in collaboration with the Australian Wagyu Association.

## Wagyu Feeder Check

Wagyu Feeder Check is a genomic tool developed alongside CSIRO in partnership with the Australian Wagyu Association (AWA), aimed at improving the resilience and sustainability of Australia's Wagyu beef export sector.

Wagyu Feeder Check is a commercial DNA genomic test designed for Wagyu content beef cattle to determine low genetic merit animals and help eliminate these from long-fed feedlot finishing programs. This genomic test will optimise resource use efficiency, increase drought adaptability, and improve profitability and resilience in the high-value Australian Wagyu Beef export beef sector.

Wagyu Feeder Check reports genetic merit for five traits:

- ✓ **Feedlot Average Daily Gain**
- ✓ **Carcase Weight**
- ✓ **Subcutaneous Fat Depth**
- ✓ **Eye Muscle Area**
- ✓ **Marble Score**

Additionally, the Wagyu Feeder Index provides a prediction of each animal's overall commercial value ranking in a typical long-fed Wagyu feedlot finishing program, based on the genetic merit of the animal across the five key traits. The AWA Crossbred Wagyu Test (CWT) can also be ordered alongside the Wagyu Feeder Check test, determining the Wagyu content for non-pedigree crossbred animals. Sire verification is included for progeny of sires that have genomic profiles recorded with the Australian Wagyu Association.

## Wagyu Feeder Check Predicts Differences in Performance

When a group of 1549 animals were ranked on their Wagyu Feeder Check prediction, the difference in the average performance of animals ranked in the highest 10% and lowest 10% for each Wagyu Feeder Check trait was:

- Carcase weight – 56kg
- Average daily gain – 0.22 kg/day
- EMA – 6 cm<sup>2</sup>
- AUSMEAT marbling score – 2.0 scores
- P8 fat – 8.7mm

Neogen is proud to be a diamond partner of the Australian Wagyu Association





## Angus SteerSELECT

Developed in Australia, by Australians, for use in Australian & New Zealand Angus cattle

Suitable for straightbred Angus heifers (87.5% Angus content or greater).

Delivered in collaboration with Angus Australia.

# Angus SteerSELECT

Angus SteerSELECT is a genomic selection tool which identifies the genetic merit of Angus steers (87.5% Angus content or greater), providing greater precision in sorting and/or marketing steers into lines suitable for the different paths in the beef supply chain.

Angus SteerSELECT provides genetic predictions on the following traits:

- ✓ **Growth trait: yearling weight**
- ✓ **Feedlot traits: average daily gain, daily feed intake**
- ✓ **Carcase traits: carcass weight, eye muscle area, rib fat, MSA marbling and ossification**
- ✓ **Resilience trait: ImmuneDEX**

Angus SteerSELECT also offers an overall selection index called Angus Steer Value (ASV), which is presented with an easy-to-understand star rating system. Additionally, it includes Angus BreedCHECK, a genomic prediction of breed composition. The test also provides sire verification, confirming the potential sires registered with Angus Australia who have available genomic profiles.

Angus SteerSELECT complements other sources of information that may be used in sorting and marketing of Angus steers, such as age, weight and background information like past feedlot and carcass grading performance. Angus SteerSELECT provides valuable insight into the genetic potential of steers, particularly for traits that are difficult to assess visually (i.e. marbling potential).

Angus SteerSELECT is suitable for both Angus steers and heifers entering the beef supply chain. For breeding heifers, the companion product Angus HeiferSELECT is more suitable.

Angus SteerSELECT has been developed in Australia, by Australians, for use in Australian and New Zealand Angus cattle and production systems.

## Angus SteerSELECT Delivers Value

When a group of 3834 steers were ranked on Angus Steer Value, the highest 100 steers, by comparison to the lowest 100 steers, had on average:

- Heavier carcasses by 53kg
- More marbling by 258 MSA marbling score points (or approx. 2.5 more AUS-MEAT marbling scores)
- More muscle with eye muscle areas 13 cm<sup>2</sup> larger
- More efficiency with 0.6 kg/day less feed eaten
- More gain with 0.1 kg/day additional average daily gain

Neogen is proud to be a prestige partner of the Australian Angus Association



NEOGEN

WORLD ANGUS  
FORUM *Australia*



Neogen is doing **more**

## More for your animals

As a leading manufacturer of animal safety equipment, Neogen supplies veterinary consumables, specialised farming instruments, obstetrics tools, and protective wear for happier, healthier animals and a more efficient enterprise.

Featured products include:

- Prima dosing instruments from the U.S.A. – for superior injecting and drenching
- Durable, dependable, detectable D3 brass and alloy tri-bevelled needles
- Sprays, dyes, and markers for all hides
- Calf pullers, gloves, and protective wear, for necessary veterinary and obstetric intervention



## More for your feed

Neogen protects and enhances the world's food supply, for both humans and animals.

Not only do some mycotoxins found in grain present a serious health risk, but contamination can also rob feed of its fat, protein, and vitamin content, leading to nutritional deficiencies in livestock. Neogen provides simple and cost-effective rapid screening solutions for use onsite as well as highly sensitive tests to quantify results in labs.

Our Megazyme test kits, reagents and substrates are designed to help feed manufacturers monitor the properties of their raw materials, the efficiency of their processes, and the quality of their finished products. Neogen offers a range of often unique solutions for measuring key nutritional information to allow more effective diet management for your animals.



Get in touch to discover how much **more** Neogen can do for you.

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