

# TROPICAL RESILIENCE GENETICS

## Brochure

## ABOUT US

**Tropical Resilience Genetics (TrRG)** is a global leader in heat-tolerant dairy genetics, delivering high-performance cattle for tropical and heat stressed climates. With the largest Homozygous SLICK bull team based in New Zealand, Australia and USA and scientific research based partnerships, TrRG drives innovation to help farmers thrive in challenging environments.

### Our Vision

**Dairy Food Security powered by Elite SLICK Cattle Genetics.**

### The Mission

**To Drive the Global Impact of SLICK Cattle Genetics for Improved Efficiency and Sustainability for Farmers and Industry Stakeholders in Hot Climates.**

## UNDERSTANDING THI & HEAT STRESS IN CATTLE

The **Temperature-Humidity Index (THI)** combines air temperature and humidity to measure heat stress in cattle.

As THI rises above 66, cows begin to experience heat stress.



Mild (68-71)

Moderate (72-79)

High (80-89)

Severe (89-98)

Deadly (>98)

Increasing stress leads to visible signs such as:

**01 Rapid breathing**

**02 Reduced feed intake**

**03 Drooling**

**04 Restlessness and poor rumination**

Ultimately significant declines in milk production and fertility.

# SCIENCE & IMPACT BEHIND SLICK



## What is the SLICK Gene?

The SLICK gene is a naturally occurring genetic variation that produces a **short, smooth hair coat in cattle**, and **more active sweat glands** allowing them to dissipate heat more efficiently.

## The SLICK Advantage vs. Normal Cattle

Unlike normal cattle with longer, dense hair that traps heat, **SLICK-coated animals release body heat faster**, helping them stay around 1 °C cooler in hot and humid environments.

## Key Benefits & Impact

- 01 This improved heat tolerance reduces stress
- 02 Supports better feed intake
- 03 Maintains milk production under challenging conditions

As a result, cattle carrying the SLICK gene show:

- **Enhanced adaptability**
- **Improved Productivity and Fertility**
- **Overall health efficiency in Tropical climates**

## IMPACT ON PROFITABILITY SLICK COW VS NON SLICK COW

### IN HOT CLIMATES

SLICK cows stay cooler and maintain feed intake, resulting in:

- 01 Higher milk production
- 02 Better fertility
- 03 Lower feed health costs— *driving greater profitability.*

### IN CONTRAST

Non-SLICK Cows suffer heat stress:

- 01 Leading to reduced production
- 02 Increased wastage from health and fertility issues
- 03 Poor feed efficiency and lack of Profitability



# OUR BULL COLLECTION



ADAPTED to PERFORM in the HEAT!

Holstein-Friesian

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Australia



Vala Sunstation Harpoon-P

USA



FIT PA-MA FAT MOVER-SI-P-ET

Crossbred

Beef

New Zealand



Kiwipole Cheddar Maestro

New Zealand



Rissington Savannah U155



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Our **Full Catalogue**  
From Website

## OUR PRODUCTS

TrRG offers a wide range of genetic products from the USA, New Zealand and Australia:

- 01 Sexed semen (90% Female)
- 02 Conventional semen
- 03 Embryos, all carrying the potent SLICK gene

# OUR DISTRIBUTORS



## PHILIPPINES

Advira Trading Corporation



## JAMAICA

Hi-Pro Farm Supplies



## INDONESIA

Moosa Genetics



## KENYA

Tanolope Consultancy



## PARAGUAY

Biogenetics Paraguay SRL



## PAKISTAN

Tropical Genetics Pakistan



## AUSTRALIA

Tropical Resilience Genetics Australia

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