



Immunity+™

DISEASE RESISTANT GENETICS

WHAT IS IMMUNITY?

Immunity is the body's natural defense system that protects and armours it from harmful bacteria and disease.

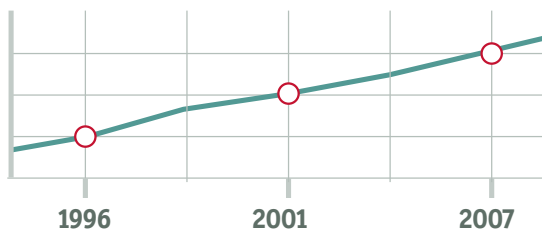


CURRENT CHALLENGE

- Diseases are a huge cost to the dairy thereby reducing overall profit
- There is increasing trend in the incidence of diseases

NO IMPROVEMENT

HAS BEEN MADE TO STOP THE GROWING INCIDENCE OF DISEASE IN THE GLOBAL DAIRY CATTLE POPULATION.



Daughters of Immunity+™ sires have less disease and provide additional benefits which improve overall herd health and increased longevity.

A GENETIC SOLUTION

- Semex's Immunity+™ sires have been tested and confirmed to possess high levels of immune response to fight disease
- Immune Response is highly heritable
- Immunity+™ sires pass on their natural defense to their daughters and subsequently to future generations

BENEFITS



Building a stronger herd

DAUGHTERS OF IMMUNITY+™ SIRES ARE EXPECTED TO HAVE

**4 to 8%
less
disease**

Including mastitis, metritis, ketosis and retained placenta. Early indications show a desired response to Johnes as well.

**\$80 per
daughter
added profit**

In addition to the \$ value of the genetics for other traits.



HERITABILITY

Production Traits **25-35%**

Conformation Traits **15-40%**

Immune Response 25%

Longevity **8-10%**

Calving Ease Traits **6-7%**

Daughter Fertility **4-7%**

Disease Incidence **2-10%**

SEMEX®

Genetics for Life®