



WELLNESS IS A PROFITABLE CHOICE FOR HOLSTEINS

GENETICALLY SELECT HEIFERS TO BUILD A MORE PROFITABLE HERD

With CLARIFIDE® Plus, you can improve herd health with genetic testing and selection. Profitable Holstein cows are more fertile, productive, healthy and long-lived. They require fewer treatments and are more likely to remain in the herd longer. CLARIFIDE Plus allows you to make selections based on wellness and fertility traits that impact profitability.

CLARIFIDE Plus is the first and only genomic test that delivers information on all these traits:

- **Eight cow wellness traits** — mastitis, lameness, metritis, retained placenta, displaced abomasum, ketosis, milk fever and respiratory disease
- **Three additional fertility traits** — cystic ovary, abortion and twinning
- **Three calf wellness traits** — calf liveability, respiratory disease and scours

These genetic predictions are based on data collected from millions of health records.

The expanded suite of genomic insights enhances your ability to make decisions that incorporate fertility traits and disease risk. CLARIFIDE Plus indexes balance these factors to help you select the most profitable animals for your herd. This single-sample genetic test provides you with highly relevant information as you seek to improve the health, productivity and profitability of the Holstein cattle in your care.



SELECT AGAINST CONDITIONS THAT IMPACT FERTILITY

With the newest trait additions for CLARIFIDE® Plus, you have even better insights to help avoid costly conditions that impact fertility. The newest traits included in CLARIFIDE Plus results include cow abortion, twinning, cow respiratory disease, cystic ovary and milk fever.

Abortion among dairy cows represents a major economic burden to the dairy industry. Abortion can also increase the risk of other diseases and premature culling.

Twinning reduces your herd's overall profitability from the health impact on cows as well as on calves born as twins.¹ Twinning can result in increased risk for dystocia (difficult calving), retained placenta, metritis, abortion and culling. Research has shown that the mortality rate for twins can be two to three times more than that of a single calf.²

AVERAGE RELIABILITY AND AVERAGE, MINIMUM AND MAXIMUM GENETIC VALUES FOR HOLSTEIN COW WELLNESS TRAITS, FERTILITY TRAITS AND CALF WELLNESS TRAITS*

	Average % Reliability	Minimum Score (STA)	Maximum Score (STA)
Cow Wellness Traits			
Mastitis	52	76	115
Lameness	52	73	115
Metritis	51	75	115
Retained Placenta	51	71	116
Displaced Abomasum	50	69	111
Ketosis	51	72	113
Milk Fever	36	68	114
Respiratory Disease	40	70	114
Fertility Traits			
Cystic Ovaries	29	69	118
Abortion	35	70	118
Twinning	42	66	112
Calf Wellness Traits			
Calf Liveability	42	85	117
Calf Respiratory	36	83	116
Calf Scours	39	66	116

*Numbers reflect data from reference population of animals under 2 years of age

Average disease risk is represented by an STA value of 100. Values greater than 100 reflect animals with lower expected average risk for the associated disease relative to their herdmates. Selecting for a high STA will apply selection pressure for reduced risk of disease.

To learn how CLARIFIDE Plus can help you achieve a healthier, more trouble-free herd, contact your Zoetis representative today or visit www.zoetis.co.za/genetics

¹ Fricke PM. Twinning in dairy cattle. *The Professional Animal Scientist*, 2001;17(2):61-67.

² Del Rio NS, Stewart S, Rapnicki P, Chang YM, Fricke PM. An observational analysis of twin births, calf sex ratio, and calf mortality in Holstein dairy cattle. *Journal of Dairy Science*, 2007;90(3):1255-1264.



Our goal is to help you achieve all of yours. On your operation, every outcome — from improved reproduction to quality milk — affects your success. And we'll be there to help you develop programs and solutions to improve those outcomes. Because that's how, together, we'll achieve Dairy Wellness.

DAIRY WELLNESS MAKES A DIFFERENCE™

Full product information available from Zoetis South Africa (Pty) Ltd., Co. Reg. No.: 2012/001825/07, 6th Floor, North Wing, 90 Rivonia Road, Sandton, South Africa, 2196. PostNet Suite 53, Private Bag 9976, Sandton, South Africa, 2146. Tel.: +27 11 245 3300 or 0860 ZOETIS (0860 963847). www.zoetis.co.za

