

Igenity[®] BCHF

Bovine Congestive Heart Failure Test

Mitigate Risk for Costly BCHF

Bovine Congestive Heart Failure (BCHF)

stands as a significant threat to the health and productivity of feedlot cattle. In severely affected cattle pens, mortality rates have surged to 7%, translating to staggering annual losses surpassing \$250,000 for a single operation.¹ Igenity BCHF is a revolutionary genomic test designed to evaluate the potential BCHF risk breeding stock will pass off to their offspring. By utilizing Igenity BCHF to assess genetic predisposition for BCHF in breeding stock, producers can effectively manage the risk of BCHF within their herd, confidently producing calves that will have a lower risk of mortality from BCHF.



CORE ADVANTAGES

- BCHF EPD, Accuracy, and Percentile Rank results provide valuable insights for predicting the genetic risk of cattle developing BCHF, with lower EPD and Percentile Ranks indicating a more favorable outcome.
- Select breeding animals with lower BCHF EPD and Percentile Rank to help reduce the prevalence of the condition in offspring, improving both herd health and profitability.
- Group cattle based on their Igenity BCHF EPDs to better manage and mitigate potential health issues in high-risk cattle.

ADVANTAGES FOR YOUR OPERATION

- Manage mortality and morbidity rates related to BCHF in offspring from Igenity BCHF tested breeding animals, through targeted management strategies such as enhanced monitoring, tailored nutrition plans, and reduced stress.
- Mitigate economic losses related to cattle death or decreased performance due to BCHF related complications.
- Increase overall bovine heart health standards by selecting animals with lower prevalence of heart failure related genes.

Percentile Rank	BCHF EPD
1%	-7.7
10%	-4.7
20%	-3.3
30%	-2.3
40%	-1.4
50%	-0.5
60%	0.4
70%	1.4
80%	2.7
90%	4.5
100%	14.7

(Low) 1 to 20%

(Moderate) 30 to 50%

(High) 60 to 80%

(Severe) 90 to 100%

The table to the left demonstrates the relative risk of BCHF from low to severe for the EPD values and corresponding percentile ranks ².

Reference population:

Over 32,000 commercial-fed cattle in the Pacific Northwest were phenotypically identified for cardiac morphology ². A subset of 25,187 individuals underwent genotyping to assess the genetic characterization. The Breeds in the reference population were Angus; Angus X Charolais; Angus X Charolais X Hereford; Angus X Hereford; Angus X Holstein, Charolais; Charolais X Hereford; Charolais X Holstein; Charolais X Holstein X Jersey; Charolais X Jersey; Hereford; Holstein; Multi-breed

References:

1 Heaton, M. P., Harhay, G. P., Bassett, A. S., Clark, H. J., Carlson, J. M., Jobman, E. E., Sadd, H. R., Pelster, M. C., Workman, A. M., Kuehn, L. A., Kalbfleisch, T. S., Piscatelli, H., Carrie, M., Krafur, G. M., Grotelueschen, D. M., & Vander Ley, B. L. (2022). Association of ARRDC3 and NFIA variants with bovine congestive heart failure in feedlot cattle. *F1000Research*, 11, 385

2 Buchanan, J. W., Flagel, L. E., MacNeil, M. D., Nilles, A. R., Hoff, J. L., Pickrell, J. K., & Raymond, R. C. (2023). Variance component estimates, phenotypic characterization, and genetic evaluation of bovine congestive heart failure in commercial feeder cattle. *Frontiers in Genetics*, 14, Article 1148301.



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