HOW OMNIGEN PRODUCTS WORK TO SUPPORT DAIRY CATTLE HEALTH



Enhanced Immune Cell Function¹

- In a study using a rodent model, lactating mice fed OmniGen were challenged with S. uberis, S. aureus or E. coli. OmniGen-fed mice had reduced mammary gland infection rates compared to controls.
- Work at the University of Georgia showed neutrophils isolated from heifers fed OmniGen were more effective in recognizing and capturing *S. aureus* and *E. coli* bacteria.
- These studies suggest enhanced immune function resulting from feeding OmniGen improve a cow's ability to resist mastitis-causing pathogens.







Anti-Fungal Activity³

- Research has shown that OmniGen reduced the rate of growth of Aspergilllus fumigatus in feeds.
- It is hypothesized that the antifungal properties combined with the proven immune benefits of OmniGen contribute to a reduction in HBS cases.
- Because of improved overal immunity in cows fed OmniGen, it helps deliver immune support as a first line of defense against this fatal syndrome.









- A University of Arizona study showed that lactating dairy cows fed OmniGen while
 experiencing an acute heat stress challenge had an altered cortisol response compared
 to controls. Cows fed OmniGen while subjected to a high thermal heat index had a reduced
 free Cortisol response compared to cows fed a control diet.
- These results suggest that OmniGen is attenuating the acute stress response, allowing cows to cope with the challenge to help offset many of the detrimental effects associated with heat stress.





- Postpartum diseases can lead to chronic inflammation, which can result in impaired reproduction. University of Florida researchers concluded that cows experiencing one or more postpartum diseases have reduced conception rates and increased pregnancy losses.
- Data from a University of Florida study showed a 10-day reduction in days open for cows fed OmniGen. In this study, feeding OmniGen for immune competence also reduced the incidence of postpartum diseases, suggesting a reduction in chronic inflammation in cows fed OmniGen.



REDUCED

DAYS OPEN

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³ Puntenney, S. B. et al. 2003. Mycotic Infections in Livestock: Recent Insights and Studies on Etiology, Diagnostics, a Prevention of Hemorrhagic Bowel Syndrome. Proceedings of the Southwest Nutrition Conference. Pp. 49-63. [Chapman, J. 2007. Results of an 18 Month Case Study at a Minnesota Dairy When Diets Were Supplemented with OmniGen-AF. GG10101.

⁴ Casarotto, L. T. et al. 2020. Effect of feeding an immune modulator to multiparous Holstein cows during the dry period and early lactation on health, milk and reproductive performance. Anim. Feed. Sci. Technol. 267:1-9. | Ribeiro, E. S. et al. 2016. Carryover effect of postpartum inflammatory diseases on developmental biology and fertility in lactating dairy cows. J. Dairy Sci. 99:2201–2220. | Casarotto, L. T. et al., 2020a J. Dairy Sci. 103 (Suppl. 1):40. (Abstr.).