

Hydration & Energy Support During Periods of Stress



A COMPREHENSIVE APPROACH TO COMBAT INTERNAL STRESS

Hydro-Lac is a specially formulated, patented product designed to provide essential nutrients, electrolytes and sugars. These are necessary to maintain body fluid balance during heat stress, post-calving, transportation, and when faced with metabolic disorders.

Enhanced Hydration: Hydro-Lac improves cellular fluid balance¹ through its proprietary electrolytes and osmolytes, ensuring cells are ready and hydrated for heat stress, calving and transportation events where fluid loss is a concern.

Antioxidant Support: The research-proven antioxidant properties of Hydro-Lac^{1,2} provide immune system support when cattle need it most. Whether just after calving⁴ or during heat stress³, antioxidants can improve cell repair, reduce inflammation, and ultimately lead to faster recovery to normal production following stress events.

Rumen & Gut Health: Severe stress can impact the health and integrity of the rumen and lower gut, destroying protective tissues and opening the door for pathogens and toxins to enter the bloodstream⁵. Hydro-Lac's comprehensive nutrients work to protect from the effects of "leaky gut" syndrome associated with heat stress.

Body Temperature Regulation: Field demonstrations have proven cattle fed Hydro-Lac prior to and during heat stress events are better able to regulate their body temperature. This includes the critical internal temperature that affects embryo survival⁷.

Safe, Improved Energy Status: Hydro-Lac's comprehensive, proprietary ingredients work together to safely transfer extra energy to cells fast, enabling the animal to better cope with stress. Hydro-Lac minimizes the risk of a negative energy balance, and returns the animal to positive energy balance faster for improved recovery and overall performance after a stress event.^{3,4} Cattle can focus more on what they are supposed to do: milk, gain, or reproduce.⁶

Faster Recovery through Proactive Loss Prevention: Only Hydro-Lac's research-proven, proactive approach to minimizing production losses leads to faster recovery, and helps to combat stressful situations for all cattle at any stage in life. Faster recovery means faster return to normal income and improved return over maintenance costs for your business.

Bottom Line: No other product on the market provides the broad-spectrum, comprehensive approach to helping cattle cope with stress.



1 Hoffmann et al., 2014
2 Kern et al., 2012, 2013
3 Abujamieh et al., 2013
4 Kohls et al., - FAF Report HL1501
5 Lambert et al., 2002
6 Carvalho et al., 2014
7 Kohls - FAF Report HL1301

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HYDRO-LAC AND BEEF CATTLE

Hydro-Lac is specially formulated to provide essential nutrients, electrolytes and sugars necessary to maintain body fluid balance during times of shipping, heat stress, marketing, and livestock shows.



Research has shown that feeding Hydro-Lac prior to shipping cattle to harvest preserves live weight and meat quality. It reduces the negative effects of dehydration and shipping stress common during transportation.

Pre-Harvest	Heat Stress	Transportation	Health Challenges	Incoming Cattle
Preserves live weight and meat quality	Maintains animal performance	Maintains body fluid balance	Encourages feed and water intake	Re-hydrates and maintains hydration

Hydro-Lac for Beef Cattle Marketing

- Maintains cellular fluid balance and energy conservation.
- Preserves meat marbling as cattle are transported to market.
- Provides a positive return for cattle sold live, in the meat, or on a grid.
- Palatable and easy to feed in the ration.

HYDRO-LAC AND DAIRY CATTLE

Using Hydro-Lac can improve cow performance by helping reduce milk loss due to heat stress, promote more rapid production response post-calving, and encourage feed and water intake to overcome health challenges.



Field results have shown that cows fed Hydro-Lac maintain and drink more water and have positive responses in milk production.

Dry Cows	Post-Calving	Reproduction	Heat Stress	Health Challenges
Not a DCAD product so it works great for dry cows!	Provides energy during periods of high stress	Cooling cows is shown to improve reproductive performance	Encourages feed and water intake	Re-hydrates and maintains hydration

PRODUCER PROVEN

Beef

"In warm weather, it's a no brainer! It just makes good sense. Hydro-Lac is a tool that should be in everybody's cattle feeding toolbox."

- Ron Nykamp

"I always weigh my cattle locally before shipping. I have experienced shrink as low as 1% on a 160-mile haul to Dakota City, NE when using the Hydro-Lac program. I have used Hydro-Lac on all my cattle I ship for the last eight years.

- David Schumacher

Dairy

"Since we started using Hydro-Lac over the summer, we have noticed that cows keep eating and maintain their milk production. It is a great product that I will always use."

- Flower-Brook Registered Holsteins

"Intakes are improved after calving from what we were doing in our previous program. Fresh pen milk production is up and Hydro-Lac is the only thing that we are doing that is different."

- John Warren