

KemTRACE® CHROMIUM FOR FEEDLOTS

KemTRACE® Chromium is a highly bioavailable, organic source of chromium that helps improve glucose utilization for increased cellular energy and function. This results in better animal maintenance, growth, and immunity.

KemTRACE Chromium is supported by more than **20 years of university and commercial research** and is the only U.S. Food and Drug Administration-reviewed form of chromium propionate.

What can animals do with more glucose?



Improve immune function



Optimize performance during high metabolic demands



Increase muscling



Increase feed efficiency



Withstand effects of heat/cold stress

HOW KemTRACE® CHROMIUM WORKS

ACTIVATES INSULIN RECEPTORS



MORE GLUCOSE ENTERS CELL



MORE ENERGY AVAILABLE

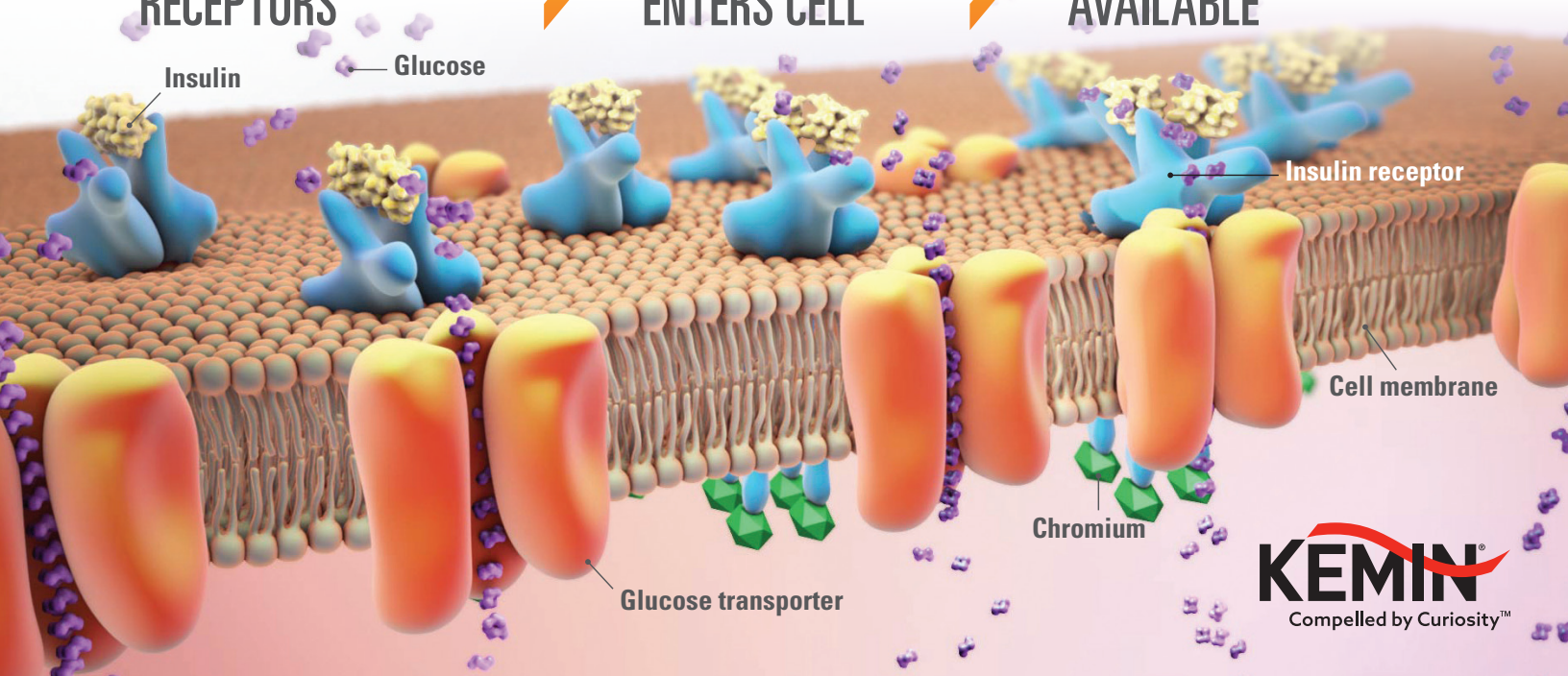
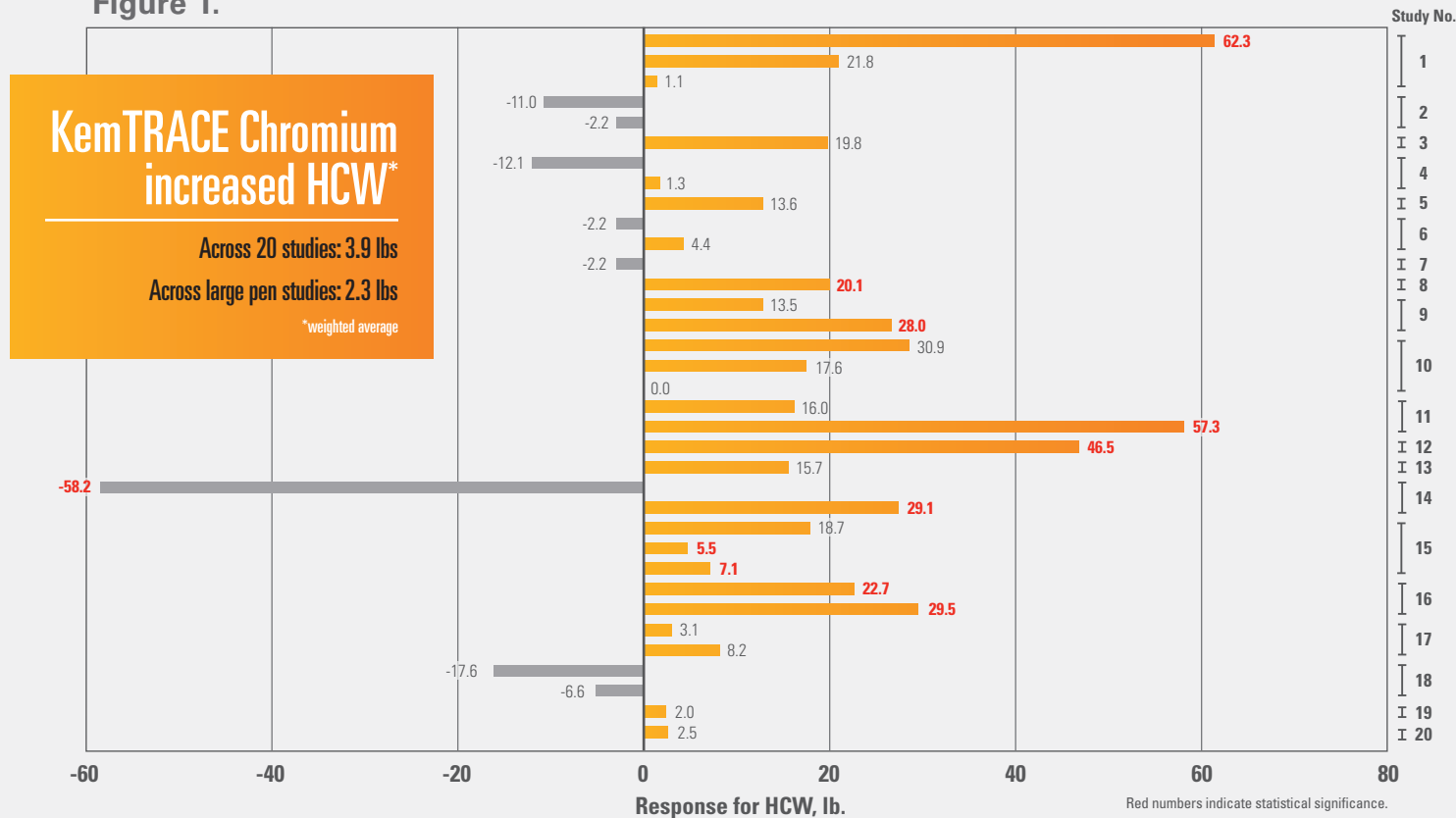


Figure 1.



KemTRACE® Chromium in the Feedlot: Performance and Animal Health Data¹

Table 1. Performance Data of Receiving Cattle²

Item	Treatment ^a		P-value
	CON	CHR	
Pens, n	12	12	
BW, lb			
Initial ^b	483	485	0.86
Day 56	633	642	0.95
ADG, lb			
Initial to Day 56	2.67	2.8	0.95
DMI, lb/d			
Day 0 to 56	12.04	12.3	0.7
F:G			
Day 0 to 56	4.51	4.47	-

^a CON = placebo control; CHR = 450 ppb DM chromium.

^b Initial = average of d -1 and d 0 BW.

Table 2. Affects on Health of Receiving Cattle²

Item	Treatment ^a		P-value
	CON	CHR	
BRD1, % ^b	43.93	35.82	0.03
BRD2, % ^c	23.37	16.27	0.47
Respiratory mortality, % ^d	4.23	3.34	0.95
Days to			
1st Treatment	13.4	9.2	0.04
2nd Treatment	21.1	21.6	0.91
Antimicrobial cost, \$/hd ^e	12.45	6.15	0.13

^a CON = placebo control; CHR = 450 ppb DM chromium.

^b Percentage of steers treated for BRD at least once

^c Percentage of steers treated for BRD at least twice

^d Pooled standard error of the mean

^e Antimicrobial cost assumes the following: \$0.59/mL for florfenicol (Nuflor®, Intervet Inc.), \$0.47/mL for enrofloxacin (Baytril®, Bayer Aktiengesellschaft), \$2.00/mL for ceftiofur crystalline free acid (Excede®, Zoetis Services LLC).

Scan to watch the
KemTRACE Chromium
Mode of Action Video:



Scan to learn more
about KemTRACE
Chromium:



In another study, the number of cattle treated for disease was reduced from 25.85% to 7.48% in cattle fed KemTRACE Chromium³

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REFERENCES

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- Smock TM, Samuelson KL, Hergenreder JE, Rounds PW, Richeson JT. Effects of *Bacillus subtilis* PB6 and/or chromium propionate supplementation on clinical health, growth performance, and carcass traits of high-risk cattle during the feedlot receiving and finishing periods. *Transl Anim Sci*. 2020;4(3):baa163. Published 2020 Sep 3. doi:10.1093/tas/baa163
- B. C. Bernhard, N. C. Burdick, W. Rounds, R. J. Rathmann, J. A. Carroll, D. N. Finck, M. A. Jennings, T. R. Young, B. J. Johnson. Chromium supplementation alters the performance and health of feedlot cattle during the receiving period and enhances their metabolic response to a lipopolysaccharide challenge—, *Journal of Animal Science*, Volume 90, Issue 11, November 2012, Pages 3879–3888, <https://doi.org/10.2527/jas.2011-4981>

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