



**FloChem**<sup>Ltd.</sup>

Quality Chemical Management

**KlingonBlue**<sup>™</sup>

**KlingonBlue**<sup>™</sup>

**Long-acting Foot Bath**

[www.FloChem.com](http://www.FloChem.com)

## Digital Dermatitis Causes...

- 53.9% of lameness in cows
- 61.8% in bred heifers

USDA survey of 85% of US Dairy Farms, 2003

Is also known as...

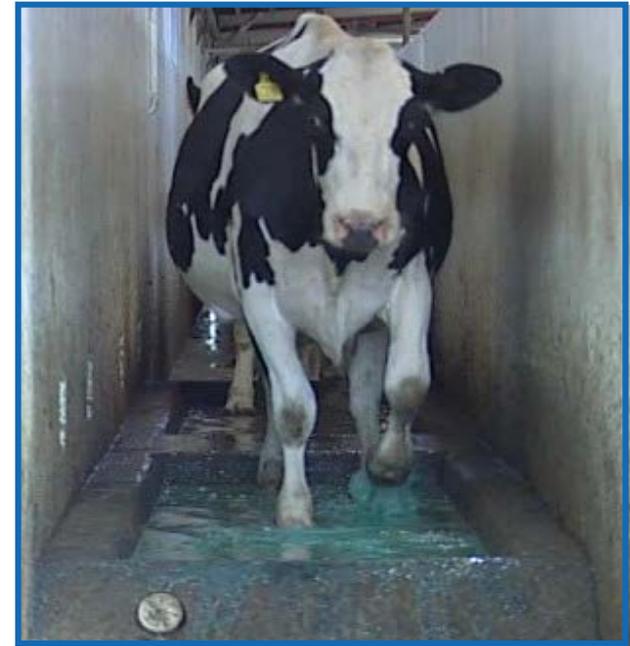
- hairy-heel warts
- infectious lameness



APHIS Info Sheet, Dec 2003

## Foot Bathing Can Help

- Foot bathing is an important part of the management and control of lameness ...





## Limitations of Foot Bathing

- Short contact time for antibacterial agent
  - An ideal agents should persist on the skin after treatment to prolong curative function and to act as a preventative;  
*Laven, R. and Logue, D. Treatment strategies for digital dermatitis*
- Short contact time for zinc sulphate
  - Zinc sulphate penetrates hoof/horn at less than 0.5mm per hour.

## KlingonBlue<sup>™</sup> ... Clings On!

- After foot bathing, a film is left on cow's feet.



## Preparation of KlingonBlue<sup>™</sup>

- Pour 45 L of water into a 200 L drum with half its lid removed;
- Insert the lance of a power washer and start the washer;





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## Preparation of KlingonBlue<sup>™</sup>

- Slowly add 1 bag (22.7 Kg) of **KlingonBlue**<sup>™</sup> while continuing to agitate the water with the **power washer**;
- Fill the drum to 200L while continuing to agitate the water with the **power washer**.



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## KlingonBlue<sup>™</sup> Increases Zinc on Hoof/Horn

- Hoof samples taken from 2 groups
- Group 1 foot bathed in 3.5% sulphate solution, the concentration provided by KlingonBlue<sup>™</sup>
- Group 2 foot bathed in KlingonBlue<sup>™</sup>
- Hooves were re-sampled

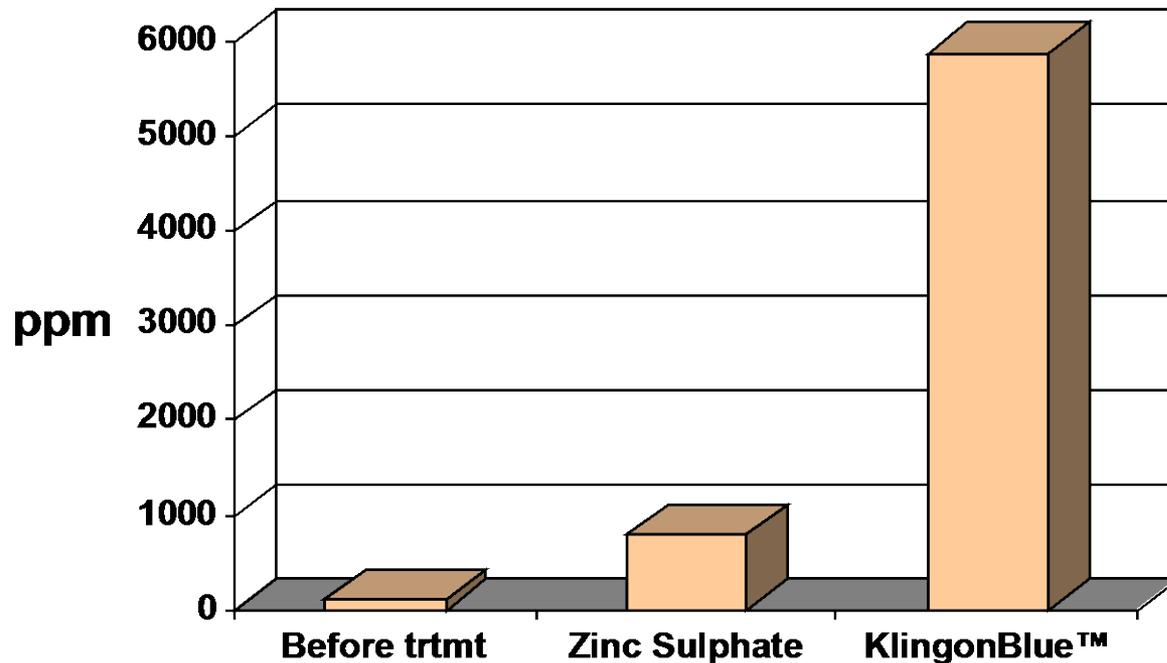
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## Results: Zinc Concentration on Hoof & Horn



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## KlingonBlue<sup>™</sup> Performs

- Cows were scored at the start and at 3-week intervals
- Cows were foot bathed weekly
- 43 Cows completed the assessment
- 40 Cows were lame at the start
- 10 Cows were lame after 6 weeks

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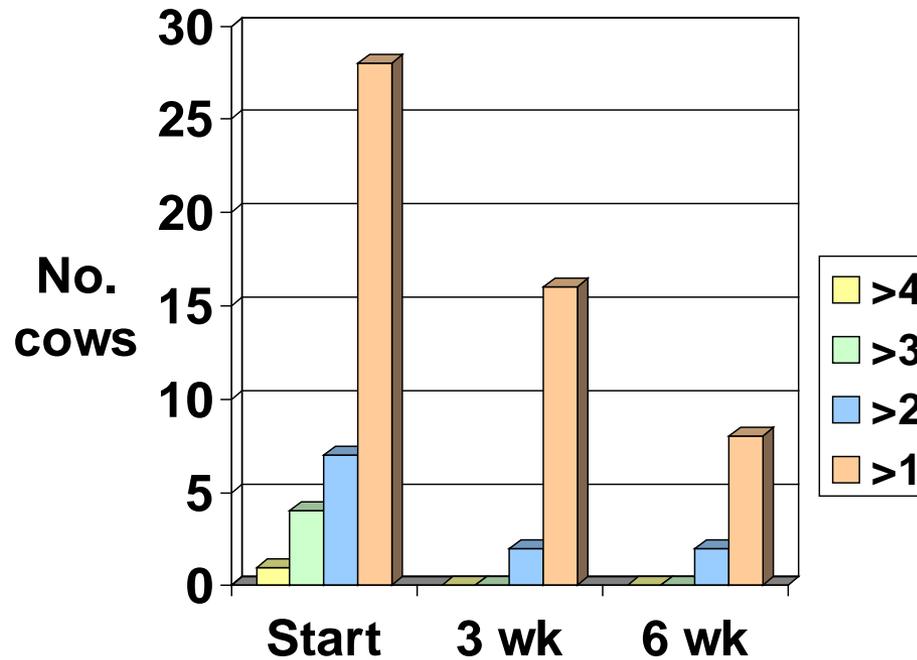


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## Locomotion Scores



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## Assessment: K. Cutler MRCVS

*Endell Veterinary Group*

“... **KlingonBlue**<sup>™</sup> does adhere to the feet of cows after a single passage through the solution. It was, in fact, still noticeable on the feet of cows at the morning milking on the day following passage through the solution. It was particularly noticeable that **KlingonBlue**<sup>™</sup> seemed to adhere well to digital dermatitis lesions.”

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## Farmers Save Time and Trouble

- **KlingonBlue**<sup>™</sup> is needed only once every 2 weeks.
- If foot condition is very poor at the start of treatment, it should be used once per week until foot condition has improved.
- Other non-antibiotic footbaths require to be used 3 or 7 times a week

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## Less Copper Sulphate for Disposal

- Copper Sulphate used three times weekly at 5% for 26 weeks for 100 cows:
  - Disposal of 1720 lbs of Copper Sulphate
- **KlingonBlue**<sup>™</sup> used once every two weeks for 26 weeks for 100 cows:
  - Disposal of 200 lbs of Copper Sulphate
- 1520 lbs less Copper Sulphate for disposal per 100 cows per annum.

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## **KlingonBlue**<sup>™</sup> is Effective and Patented

- It has been shown in trials to be as effective as 7 days a week treatment with copper or formaldehyde;
- Offers the potential to reduce heel erosion, solar ulcers and white line disease;
- It requires mixing –this must be properly explained to the farmer

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Thank You for Your Time.

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