Color Indicator Study

PURPOSE

To determine if the loss of blue color on the hooves is linked with a loss of strength in the hoof bath solution.

Cow hooves were treated with a 2% **T-HEXX Dragonhyde HBC** solution. They were then put into a solution of dirt and manure (up to 25% in water) for indicated periods of time. The hooves were then challenged with common environmental organisms.

Microbial growth was observed specifically on the hoof surface which was reflected in the color of the hoof**.** Results were as follows:

Each sample was tested against gram-positive, gram negatvie and T- mentogrophytes

0 hours, working at 100% strength

12 hours, working at 80% strength

24 hours, working at 50-80% strength

48 hours, working at less than 50% strength

Hoof bath color scale

Excellent

Good

Poor, change the bath

Very poor, change the bath

CONCLUSION

After 24 hours of contact with dirt and manure (up to 25% in water), the blue coloring on the hooves began to fade which indicated a loss in strength against outside enviromental influences.