**HOW DOES MULTIMIN® 90 WORK?**

**MINERALS ABSORBED INTO & TRANSPORTED VIA THE BLOODSTREAM**

- **MINERAL ABSORPTION**: Takes place from the gut or injection site.
- **MULTIMIN® 90** delivered only by subcutaneous or intramuscular injection in cattle.

**MINERALS STORED & RELEASED**

- Excretion (ALL PROCESSES HAPPEN SIMULTANEOUSLY)
- Stored Minerals Released Back to Blood Stream

**Functional Delivery and Usage**

- **Storage, Release & Excretion**
- **Enzyme & Tissue Levels**
- **Liver**
- **Kidneys**

**TRACE MINERALS** are components of many tissues and enzymes, which are required for normal structure and function of the animal.

**TRACE MINERALS** are stored in the LIVER for later use via secretion into the blood. The LIVER also excretes excess minerals via the bile.

The KIDNEYS primarily function as a means of secreting excess TRACE MINERALS via the urine.

**CORNELL UNIVERSITY STUDIES**

**3 SHOT DAIRY PROTOCOL:**

- **MULTIMIN® 90** treated cows were injected at dry-off, 30 days prior to calving and 35 days in milk.
- Voluntary waiting period ~ 50 days.
- All cows received a diet that had been formulated to meet or exceed the NRC nutrient requirements for lactating cows.

**Study Results**

- **Incidence of CLINICAL MASTITIS in Multiparous Cows**
- **Incidence of SUBCLINICAL MASTITIS**
- **Incidence of ENDOMETRITIS**
- **Incidence of STILLBIRTH**
- **Incidence of DISPLACED ABOMASUM**
- **Serum BHBA**

**Anti-Oxidant Status**

**Somatic Cell Count**

**Udder Health**

**SOD**

**Reproduction & Health**

**Superoxide Dismutase**

**(U/ml)**

**Effect of treatment on serum β-hydroxybutyrate concentrations at 10 ± 2 days in milk. The interaction term treatment × parity was significant with a larger effect of treatment observed for cows with parity > 2 (P = 0.049).**

* Indicates monthly means differ (P < 0.05)
"Finding Things That Prevent Problems Is What I’m Always Looking For and That’s What Multimin® 90 Does."

I find that Multimin® 90 really works well as a production tool. My clients didn’t want to just use it as a patch on their management, but they found Multimin® 90 truly enhanced production that was already in place. For me, it’s just plain science – plus I’ve seen a lot of good results out of using Multimin® 90. That’s why I keep recommending Multimin® 90 – it works!

"For Our Practice, Multimin® 90 Is an Important Tool in Our Toolbox"

One of the things we like about Multimin® 90 is its ease of use. We like to implement it every time we’re vaccinating. Another time we use Multimin® 90 is when temperatures are severe. And anytime we put in embryos.

Reference:

To learn more visit: www.multiminusa.com