



Bioavailability - Dairy Cows - USA

- ✓ **Objective** : Improvement of Se status of dairy cows
- ✓ **Herd** : 300 dairy cows, Wisconsin - USA
- ✓ **Diet** : TMR - Corn silage, haylage, high moisture corn, protein concentrate
- ✓ **Duration** : from 50 to 120 days of milk ie 70 days on trial

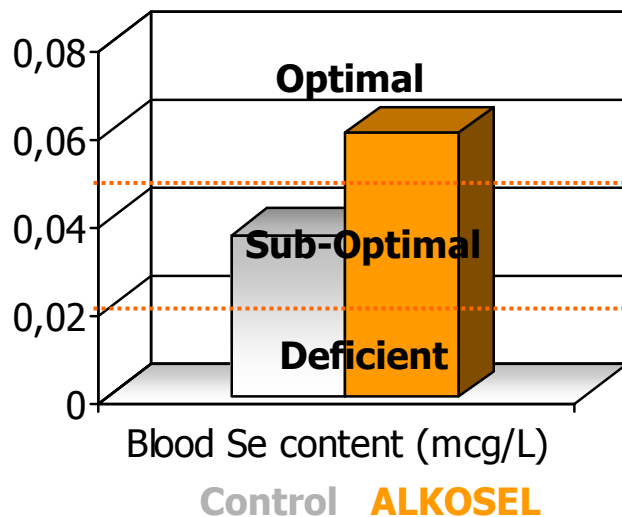
Control

Dairy cows receiving 0.3 ppm Se as sodium selenite.
Blood samples on 12 dairy cows (26/01/04).

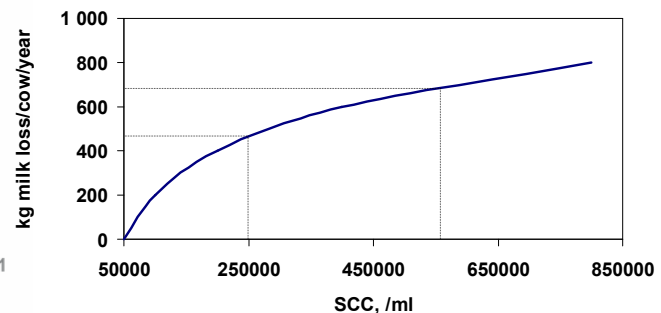
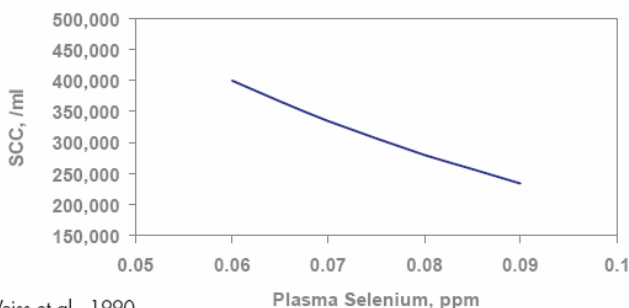
Treated

Dairy cows receiving 0.3 ppm Se as Alkosel starting 26/01/04.
Blood samples on the same 12 dairy cows (5/04/04).

ALKOSEL brought the cows to an optimal Se status due to a 38% increase of blood Se content



An increase of blood Se levels is correlated with a decrease of somatic cell counts (SCC) in milk. The higher SCC you get, the more milk you lose.





Bioavailability - Dairy Cows - Belgium

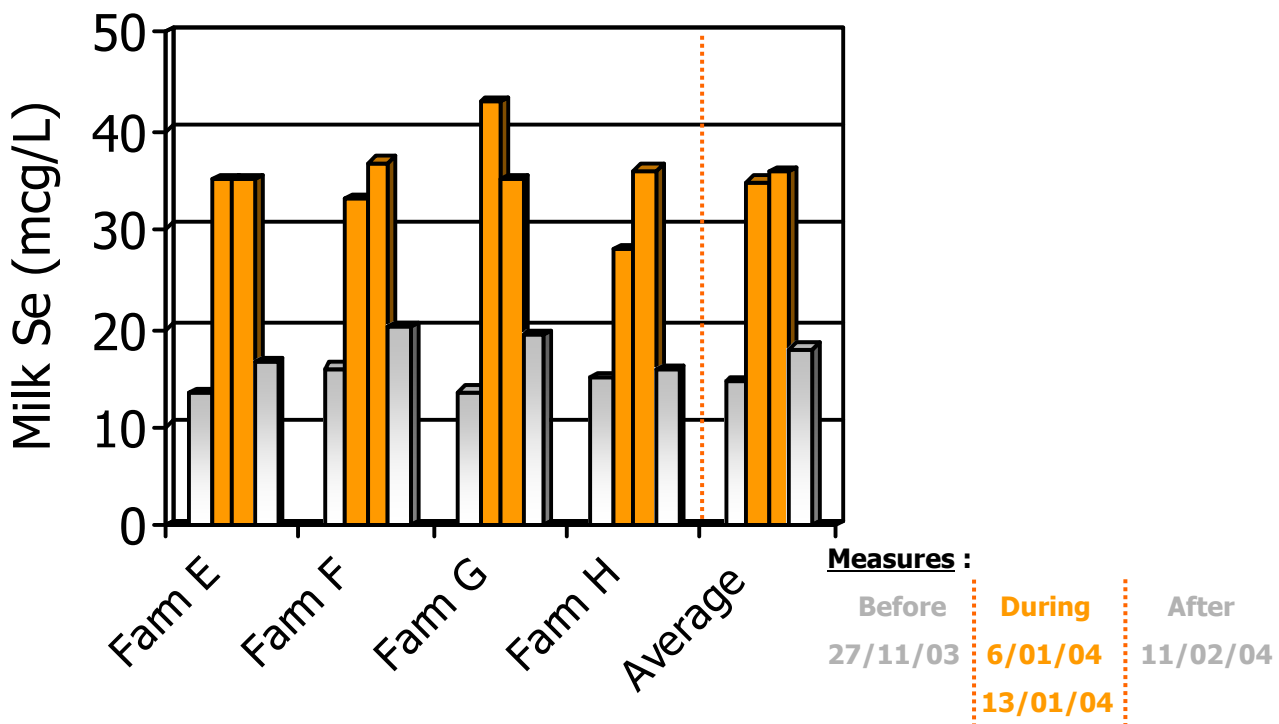
- ✓ **Objective** : Increase of milk Se content of dairy cows
- ✓ **Herd** : 4 dairy herds, average milk production from 7,500 to 10,000 L
- ✓ **Diet** : TMR - Corn silage, hay, soya, beats, protein concentrate
- ✓ **Duration** : from 15/12/03 to 15/01/04 ie 1 month on trial

Control

Before 15/12/03, dairy cows receiving 0.1 ppm Se as sodium selenite through the mineral.

Treated

From 15/12/03, dairy cows receiving 0.4 ppm total Se of which 0.3 ppm as Alkosel.



Addition of 0.3 ppm Se as ALKOSEL increases Se content in milk by 2 to 2.5 times



Milk Hygiene - Dairy Cows - Belgium

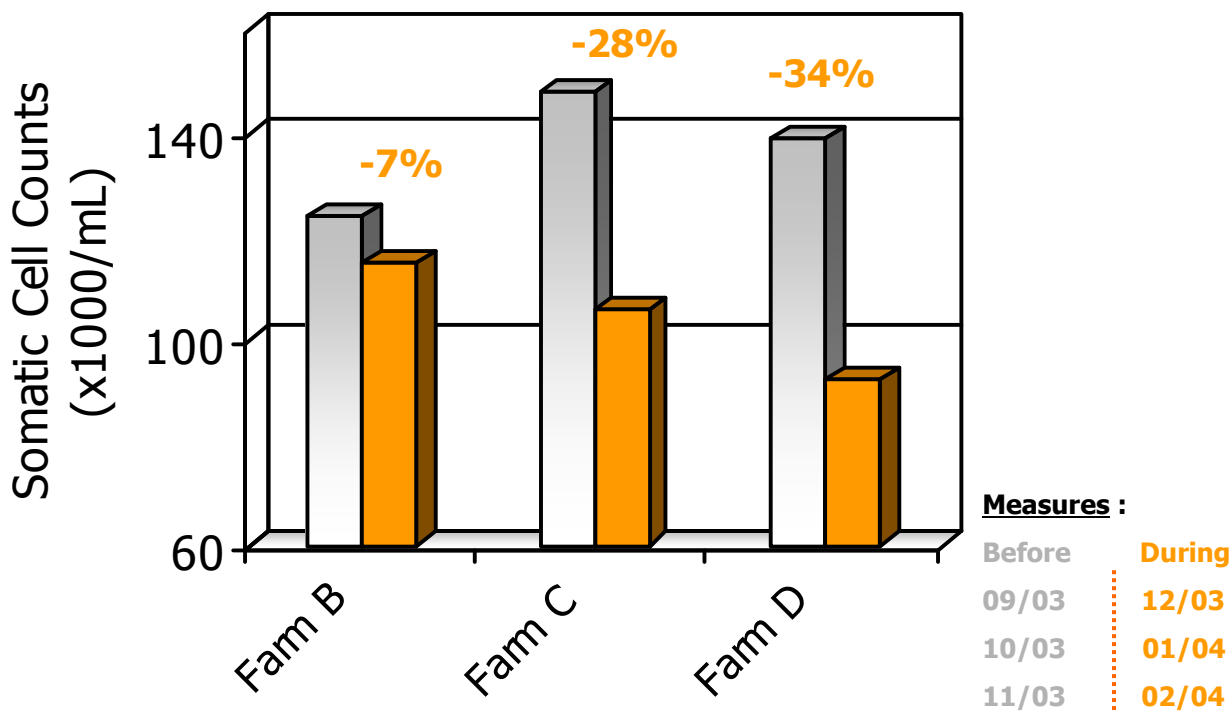
- ✓ **Objective** : Improvement of milk quality (somatic cell counts - SCC)
- ✓ **Herd** : 3 dairy farms, average milk production from 7,500 to 10,000 L
- ✓ **Diet** : TMR - Corn silage, hay, soya, beat, protein concentrate
- ✓ **Duration** : from 15/12/03 to 15/01/04 ie 1 month on trial

Control

Before 15/12/03, dairy cows receiving 0.3 ppm Se as sodium selenite through the mineral.

Treated

From 15/12/03, dairy cows receiving 0.3 ppm total Se of which 0.2 ppm as Alkosel.



Addition of 0.2 ppm Se as ALKOSEL improves milk quality (bacteriology) by reducing SCC



Milk Hygiene - Dairy Cows - Belgium

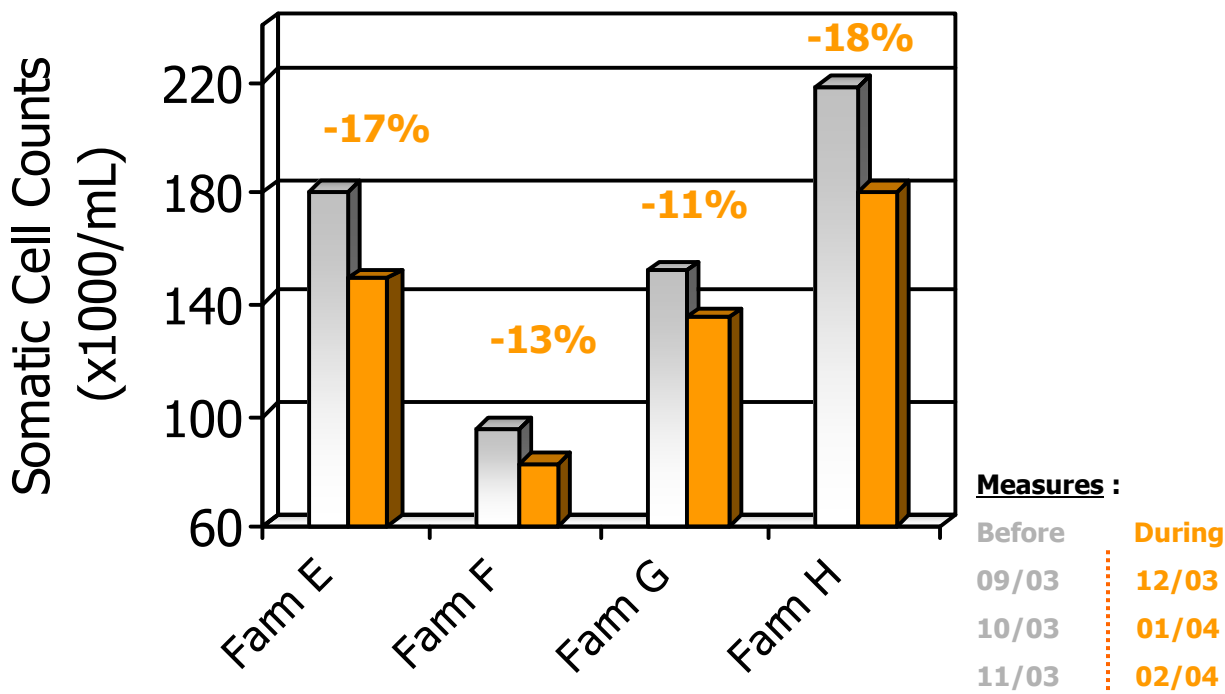
- ✓ **Objective** : Improvement of milk quality (somatic cell counts - SCC)
- ✓ **Herd** : 3 dairy farms, average milk production from 7,500 to 10,000 L
- ✓ **Diet** : TMR - Corn silage, hay, soya, beat, protein concentrate
- ✓ **Duration** : from 15/12/03 to 15/01/04 ie 1 month on trial

Control

Before 15/12/03, dairy cows receiving 0.3 ppm Se as sodium selenite through the mineral.

Treated

From 15/12/03, dairy cows receiving 0.4 ppm total Se of which 0.3 ppm as Alkosel.



Addition of 0.3 ppm Se as ALKOSEL improves milk quality (bacteriology) by reducing SCC