

Sea Algae Biocomplex Granulate & Biocomplex Liquid Usage at the MVA ÖDERNITZ Dairy Farm, Germany

Address: Agrargenossenschaft "Jänkendorf" e.G.
Milk Cow facility, Ödernitz
Helmut Just Str.42
02936 Niesky OT Ödernitz
Tel.03588-205241
Contact Person: Mr. Beeger, Vice-Managing Director

Details of Facility:

280 cows stand in Laufstall L203
Feeding via milling/cutting machine
Total Mix Rations (TMR) in 3 Performance Groups

At the above-mentioned Milk Cow Facility, we had chronic problems in stirring, mixing and pumping liquid manure through the system into storage basins where heavy layers formed.

After being introduced to several sea algae products through the agriculture trade expo "AGRA 1997", we trialed various products made from sea algae, including several for liquid manure treatment.

In mid-October 1997 we tested EKO GEA's Biocomplex granulate for animal nutrition, at a rate of 1g per 100kgs live weight of the animals, added to the feed via the milling/cutting machine. To achieve better product distribution, better efficiency and less labor-intensity we changed, on Dec. 20, 1997, to Biocomplex Liquid, dosed via the drinking water system.

To optimize this type of application, we added the following to the drinking water system:

1. A water filter
2. A dosage pump
3. A water meter

With these additions, we were certain the product reached the animal's drinking water only. The water meter coupled with the dosage pump monitored the product quantity and water usage.

At the beginning Biocomplex Liq. was dosed at 1:1,500, and later this was reduced to 1:3,000 Biocomplex:water.

The following results were identified:

- The offensive, pungent odor in the facility (NH₃, H₂S) was greatly reduced after using this product.
- In spreading the liquid manure on land, the normal offensive odor was markedly reduced and flowability much improved.

- In the Slalom System (underground sump tank) an improvement was seen after 3-4 days of storage.

The total result will be known when the stored liquid manure comes onto the land in May 1998.

Apart from the effects on the liquid manure the following, interesting differences, were noted:

- Increased dry matter intake by cows
 - o a minimum of 1-1.5 kgs/animal/day with a dosage of 1:3,000
 - o around 3 kgs/animal/day with a dosage of 1:1,500
- More water consumed
 - o from December 1997 – March 1998 it increased from 50 L/animal/day to an average of 80 L
- Milk production increased from 19.5 to 22 L/animal/day on average (11.5% increase). Although this performance increase is not totally due to the addition of Biocomplex (e.g. increased calving) an identified performance increase came from the increased intake of dry matter and water.
- It was also noticed that there were no metabolic disturbance problems despite a 9.5 kg concentrate intake per animal per day
 - o It was also noticed that in the first performance group there was an increased intake of 2.4 kgs of structurally effective raw fiber (improves fertility).
- It was also established that the Uric Acid content of the milk was reduced to 200mg/L. This has a positive impact on fertility, liver problems and the animal's general health.

The use of Biocomplex Liquid is now a permanent part of the feed regime in our facility.

Should any farmer wish to know more about our experiences with Biocomplex they can contact us at any time.

Ödernitz 30.3.1998

Beeger

2nd Managing Director (signed in original)



Ul. M. Grevenbroich 13
3000 Celje SLOVENIA

Tel: +386 64 13 95 30

Email: mkeenan@ekogea.com

Website: www.ekogea-int.com