

# Product Information



## Optitek

Optitek incorporates new technologies that enhance the natural performance of the rumen

Optitek contains a unique carefully selected combination of plant extracts and essential oils that improve microbial fermentation in the rumen. Enhanced rumen function ensures the cow makes more efficient use of her feed through improved protein and energy utilisation, and in turn she will produce **more milk**.

### How does Optitek work?

Optitek improves both the protein and energy nutrition of the dairy cow.

#### Protein nutrition:

Optitek reduces degradation of protein to ammonia in the rumen - thus making more bypass protein available and also reducing the energy cost of excreting that ammonia. Optitek therefore works best when there is excess rumen degradable protein (RDP) in the diet.

#### Energy nutrition:

Optitek also results in a better VFA profile from rumen fermentation - with more propionate from the fermentation, more glucose can be generated in the liver.

#### System/ingredient information:

- Optitek will work very well in any grazing based system as RDP is frequently in great excess.
- Optitek is suitable in grass silage based diets. Especially so when grass silage makes up over 40% of the diet. When looking at silage analysis, Optitek is particularly suitable in the following situations:

#### Scianteq lab result:

ERDP is 5 times greater than DUP

#### FWTN lab result:

MPN exceeds MPE by 20%

- Optitek is also suitable for any diets where the protein sources are largely rumen degradable. Look out for inclusion of rapeseed meal as the base protein source rather than soya. Also look for use of urea or moist distillery byproducts such as draff, Vitagold, Trafford Gold etc.

#### Cow information:

When RDP is in excess, cows must excrete urea in urine and milk

- Scorched pasture during dry conditions is a tell-tale sign of excess RDP.
- High milk urea (MU) signifies an excess of rumen degradable protein. Optitek is suitable when MU is above 25mg/dL.

#### Scientifically proven

The benefits of Optitek are backed by extensive research; excellent results have been achieved both in controlled studies and commercial field trials on farms. **Trials show:**

- A significant increase in milk yield is consistently achieved - typically 1-1½ litres per day.
- An additional 8% income over feed costs (IOFC) can be achieved at current prices.

