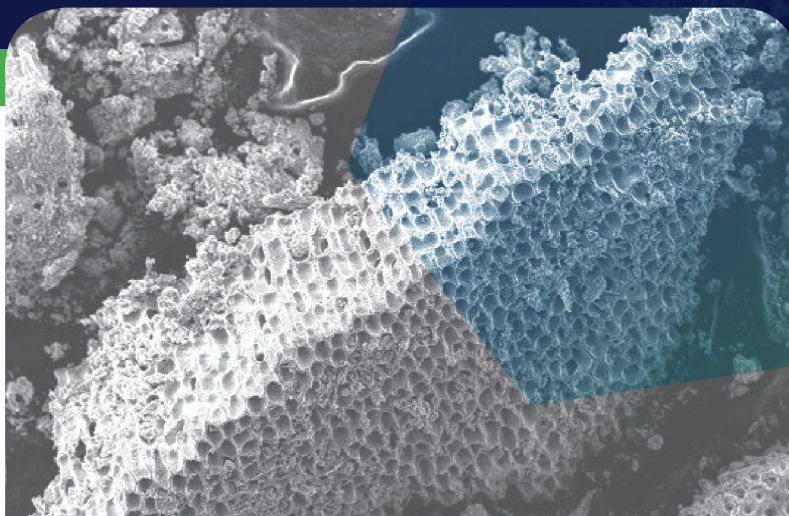




## Driving Efficiency, Delivering Profitability

Acid Buf is an efficient and effective rumen buffer derived from marine algae and is 100% natural. Stabilising rumen pH levels for a longer time period, its unique honeycomb structure breaks down slowly in the rumen and provides twice the buffering capacity of traditional buffers. Acid Buf is sustainably harvested from the north Icelandic coast and its unique marine minerals aid a healthy rumen function. This provides added benefits to the animal when compared with other marine algae sources.

- Improves feed utilisation and efficiency
- Increases milk yield and components
- Stabilises rumen pH and optimises rumen conditions
- Source of highly bio-available Calcium and Magnesium
- Proven through peer reviewed published research
- Cost effective and saves space in the diet
- Carbon Trust and Organic certification



A healthier rumen environment which should lead to an improvement in milk production and feed efficiency

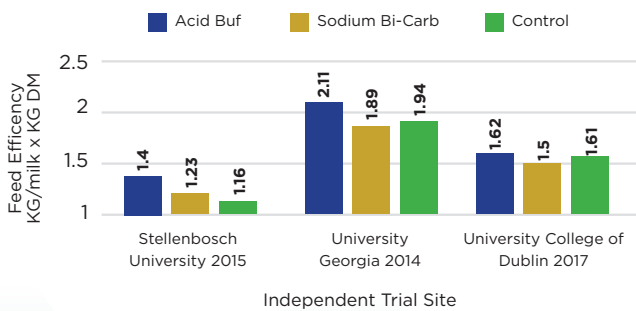
**3 Trials**  
**3 Continents**  
**3 Diets**  
**One consistent result**



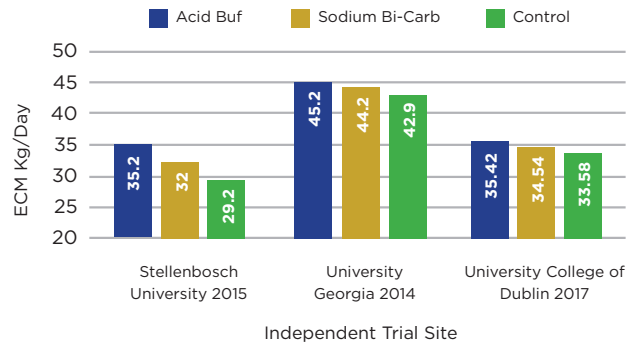
For all enquiries contact John Friel ProNutri Business Manager 086 6045918

# Driving Efficiency, Delivering Profitability

## Feed Efficiency: Acid Buf compared with Sodium Bi-Carb



## Energy Corrected Milk: Acid Buf compared with Sodium Bi-Carb



### Why do we need to include a rumen buffer such as Acid Buf?

Modern dairy cows are now eating more than 4% of their bodyweight. The increasing use of highly fermentable starch alongside highly digestible grass, can lead to an increase in acid concentrations in the rumen. This will lead to rumen pH dropping below 5.8 for extended periods of time and the rumen is experiencing sub-acute ruminal acidosis (SARA). This will impact the cow's ability to extract nutrients from feedstuffs and can lead to reduced productivity and performance.

### On-farm symptoms of SARA

- ✓ Weight loss/poor body condition
- ✓ Variable feed intake
- ✓ Reduced rumination (cud-chewing)
- ✓ Cud balls
- ✓ Mild diarrhoea and/or appearance of undigested grain in faeces
- ✓ Foamy faeces containing gas bubbles
- ✓ Low milk fat syndrome
- ✓ Laminitis

### The importance of calcium and magnesium

Calcium and Magnesium are important for nerve, muscle function, immune system and bone health. Different sources will vary in their ability to solubilise in the rumen and be made available to the cow. Acid Buf supplies a very bio-available source of both calcium and magnesium.

Constituent	Content	Bio-availability	Per 80g feed rate
<b>Magnesium</b>	5.5% min	99%	<b>4.4g</b>
<b>Calcium</b>	30%	100%	<b>24g</b>

Using Acid Buf can provide in excess of a **6:1 return on investment**. Published papers and comparison work have shown Acid Buf to be the most cost-effective buffer on the market and it provides added benefits.

- ✓ Additional space in the diet
- ✓ Bio-available source of calcium and magnesium
- ✓ Extra buffering capacity

### Application

- ✓ Farmpack
- ✓ Blend
- ✓ Compound
- ✓ Mineral

Recommended inclusion rates: Dairy Cows: 80gm/head/day. The more acidic the diet the higher the inclusion.

