

Biopara-Mineral

Forage Mineral Analysis for professionals

An adequate supply of minerals is required to replenish a cow's natural resources and maintain health and productivity. Whilst mineral deficiencies attract more attention, excessive mineral supplementation can also increase the risk of major metabolic disorders in dairy cattle.

Forages provide the bulk of dry matter intake. Biopara-Mineral, in conjunction with mineral analysis of any additional feeds being fed, identifies mineral deficiencies and those antagonistic minerals that may be causing 'lock-up' of other important minerals. Biopara-Mineral is also a useful prompt to encourage growers to assess the need for mineral supplementation of grassland soils in order to improve crop yield and dietary performance.

Biopara-Mineral analyses for:

- Macro Minerals (%DM): Ca, P, Mg, Na, K, S, Cl and DCAB (meq/kg DM)
- Trace Elements (mg/kg): Fe, Mn, Co, Zn, Se, Al, Pb, Mo and Cu

Service

Biopara-Mineral includes the supply of stationary and free post bags. The results are usually reported within 2 weeks of receipt.



Biopara-Silage

Silage Analysis for professionals

It is well known that silage quality can vary enormously. From field to field, cut to cut, season to season. Weather is a primary influence, as is the stage of maturity and what type of material is ensiled. With the silage made, what supplementary feeds should be used? What materials are actually available? What ratio of forage to concentrates will you use?

Biopara-Silage is based on cutting edge technology that measures the efficiency of rumen digestion far more accurately than any of the conventional programs in use today.

Through your professional advisor and using **Biopara-Silage**, Bioparametrics can offer the necessary advice to help ensure optimum utilisation of homegrown forages by your herd:

- More accurate analysis
- Improved feeding precision
- Improved herd performance.

Biopara-Silage is a technologically advanced analysis. It picks up differences in the rate of rumen degradation, specifically starch and fibre, which are undetectable in conventional analysis. When combined with chemical analysis the quality of silage analysis is second to none. For the first time, it enables farmers and their nutritionists to accurately balance ruminant rations and achieve the desired output.

New Technology – The benefits

Biopara-Silage forage analysis is based on a technique called In Vitro Gas Production. By incubating forages in rumen fluid, this technique provides a fast, accurate and independent measure of the rate of carbohydrate and protein degradation.

Biopara-Silage provides information about:

- The rate of starch degradation. Between 20 – 80% of the total starch available in maize silage or wholecrop cereals can be quickly fermented and is a useful indicator of acidosis risk.
- The proportion of quickly fermented sugars, starch and fibre that will not contribute to the rumen raft.
- The quantity of Active Fibre ©. This is an estimate of large forage particles (>3.2mm) that go to produce the rumen raft. For more information please see our leaflet: Active Fibre – an explanation.
- A more realistic estimate of potential ME content. For more information please see our leaflet: Silage ME Estimation – a new approach.

- Microbial Growth Potential. A new way of looking at things.
- Integration with **Biopara-Milk** feeding software. For more information please see our leaflet: Remote Biopara-Milk or Biopara-Milk.

Service

Biopara-Silage is available for grass silage, maize silage and wholecrop cereals. This includes the supply of stationary and free post bags. It is our aim to report all **Biopara-Silage** results on the same day that they arrive at the lab.

“A very comprehensive testing service”

Rodney Allen, Nutritionist, Top Flight Nutrition Ltd.

“I send my silages in for analysis and get my results back the next day. In my opinion the results are not only reliable but also provide useful information such as the rate of starch and fibre fermentation that are not available anywhere else”

Archie Leitch, Almins Ltd.

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