

SUSTAINABILITY

Products or Services to Minimise the Environmental Impact of the Animal Feed Industry

ANIMINE

AniGun®, your ally for trace minerals analysis

Precise mineral supplementation is the art of giving the animals exactly the amount of minerals that



they need. It means that, to the total requirement of one mineral, the amount coming from native feedstuffs (forages, concentrates, etc.) have to be deducted. Also, the amount of antagonist should be taken into account because they can reduce the bioavailability of some important trace minerals (TM). What is the most important limiting factor in our industry to this approach?

The challenge is to assess accurately and regularly the amounts of micro-minerals naturally contained in the forage and other feedstuffs at the farm.

Nowadays TM analyses are not done on a regular basis, are taking time and are relatively costly. Normally these analyses are done by wet chemistry, in a laboratory located far away from the farm & requiring sample management and shipment. In order to perform more accurate mineral supplementation in an accessible and immediate way at the farm, Animine developed AniGun, a handheld analytical instrument for assessing TM content in forages. It uses the XRF (X-ray fluorescence spectrometry) technology, adapted from other industries for the animal feeding objective.

After proper calibration by Animine, this handheld device can measure precisely both macro (P, Ca, S, etc.) and micro (Cu, Zn, Mn, Fe, etc.) minerals and some antagonists (Mo, S, etc.) in forages rapidly and in an affordable way. When NIR is only adapted to organic fraction, XRF is essential to obtain inorganic fraction data. Consequently, XRF is a complementary option to the NIR portable device.

AniGun help farmers and feed manufacturers to evaluate the TM content in the basal diet. This data is then used by the nutritionist to achieve a precise TM intake. With this approach, farmer could reduce the TM supplementation cost, avoid some cases of over-supplementation and chronic toxicity, and reduce the negative impact on the environment.

Contact

Email: lroyo@animine.eu

Web: www.animine.eu

AZELIS

Azelis' five-year sustainability strategy *Action 2025* commits Azelis to achieving a series of ambitious targets by 2025 across all the major sustainability aspects of its strategy: People, Products and Innovation, Governance and Environment.



Our Animal Nutrition business offers a range of specialist feed ingredients, proven by scientific research to promote health, welfare, and productivity.

We place particular emphasis on supporting gut health to enable more efficient utilisation of nutrients from feed and helping to reduce the need for antibiotics. Supporting sustainable livestock production by achieving more with less.

Examples of ingredients we offer include the following:

ProPhorce™ SR 130 and Gastrivix™ Avi contain esterified organic acids for targeted release in the small intestine. Proven to elicit positive effects on gut health and digestive performance. Gastrivix™ Avi is a unique blend of butyric and valeric acid targeted at broiler production, supporting reliable growth and performance leading to better FCR's reducing the environmental footprint.

Sangrovit® is a plant-based feed ingredient that supports feed intake during periods of challenge, therefore supporting health and productivity.

Active D contains the bioactive form of Vitamin D calcitriol delivered straight to the small intestine. It supports the uptake of Calcium and Phosphorus, which improves bone strength, egg quality and extends laying period, improving efficiency, and reducing food waste.

Plexomin® Chelated Trace Minerals

The high mineral content and bioavailability of these organically bound trace minerals aids absorption and reduces excretion, preventing mineral deficiencies even when used at a lower dose. Available as 29% Cu and 29% Zn bisglycinates or full range of monoglycinates. The production process is environmentally sustainable as energy released is re-used within the production facilities.

For further information please contact Leia Trotman at Azelis on: +44 (0)7792116659 or via email: leia.trotman@azelis.co.uk

Azelis sustainability report:

www.azelis.com/en/sustainabilityreportdownloads