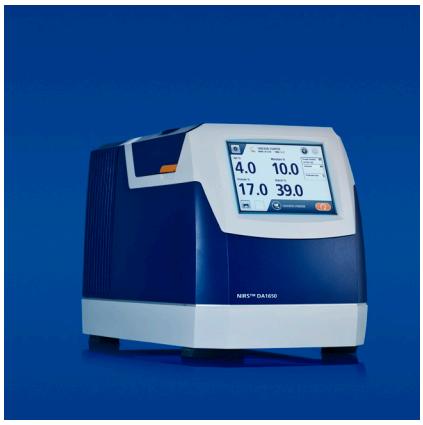
FOSS

FEED SOLUTIONS

THE COMPLETE PRODUCT RANGE



ANALYTICS BEYOND MEASURE

PRODUCT RANGE

NIRS™ DS3 series

The innovative NIRS™ DS3 series consists of two models, the NIRS™ DS3 and the NIRS™ DS3 F covering different wavelength ranges. Both models combine unique analytical performance with the latest software and networking services, making reliable test data more easily available than ever. The NIRS DS3 series offers a complete solution that covers your analytical needs from raw material intake to final product control. NIRS DS3 covers a wavelength range of 450-2500 nm, while the NIRS DS3 covers a range of 850-2500 nm.

Sample types

Raw materials, compound feed, pet food, aqua feed and forage. Tests are performed on ground, unground or liquid material with no or very limited sample preparation.

Parameters

FOSS Artificial Neural Network calibrations for analysis of protein, moisture, fat, fibre, starch and ash in under a minute. Additionally, the NIRS DS3 includes colour that requires the lower part of the wavelength range.

NIRS™ DA1650

This "easy to install and operate" solution gives instant improvements to product quality and production processes. Simple, versatile, portable and fully connected, this solution brings the power of everyday NIR analysis to everybody.

Sample types

Direct measurements of feed and forage samples in ground or unground form, for example direct measurement of pellets.

Parameters

FOSS global calibrations include: fat, protein, moisture, ash, starch and Crude Fibre (CF) as well as Neutral Detergent Fibre (NDF) and Acid Detergent Fibre (ADF) for forages.

ProFoss™ 2 for feed

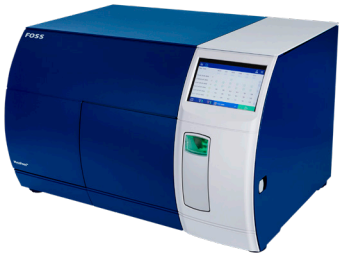
The ProFoss™ 2 feed solution offers continuous process optimisation through real-time measurements of main animal feed parameters, such as moisture, protein and fat. It also leverages all the latest development of digital technologies to seamlessly interface with NIRS™ DS3 to deliver peak performance.

Sample types

Feed raw materials and ingredients, feed mash, pellets, and final products in both compound feed and pet food.

Parameters

Moisture, protein, fat, fibre.



MycoFoss™

MycoFoss™ provides smarter management of mycotoxin risks. Make better decisions about when to safely accept raw material, segregate products or add toxin binders. MycoFoss requires no special skills - just place the sample cup with the grinded sample in the instrument and push start. The fully automated solution provides accurate results on up to 6 mycotoxins within a few minutes without the need of laborious procedures and hazardous materials.

Sample types
Maize, Wheat and Barley.

Assay solution
Singleplex Maize and Wheat: AFLA (AFB1, AFB2, AFG1 and AFG2), DON

Singleplex Barley: DON

Multiplex Maize and Wheat: DON, ZEA, AFLA (AFB1, AFB2, AFG1 and AFG2), OTA, T-2, FUM (FB1, FB2 and FB3)

Multiplex Barley: DON, ZEA, OTA*, T-2 toxin*

*) *In experimental mode for barley*

Fibertec™ 8000

Fibertec™ 8000 is a fully automated system for determination of crude fibre, detergent fibre and related parameters according to standard reference 'crucible' methods such as Weende, van Soest etc.

Sample types
Raw materials and finished products in feed and agriculture.

Parameters
Crude fibre (CF), Neutral Detergent Fibre (NDF), amylase treated Neutral Detergent Fibre (aNDF), Acid Detergent Fibre (ADF), and Acid Detergent Lignin (ADL).

Soxtec™ Systems

FOSS Soxtec™ systems offer fast and safe fat analysis with varying levels of automation. The new Soxtec™ 8000 range, consisting of an extraction unit, a hydrolysis unit, and a single filter that is common to both units, allows you to perform acid hydrolysis and Soxhlet analysis in one integrated action.

Sample types
Raw materials and finished products in feed and agriculture.

Parameters
Crude fat, total fat and extractable matter.

Kjeltec™ 9

The Kjeltec™ 9 series consists of two models, the Kjeltec 9 Analyser and the Kjeltec 9 Distillator, for safe and accurate distillation with different levels of automation. In combination with a Kjeltec 9 AutoSampler, the Kjeltec 9 Analyser provides fully automated Kjeldahl analysis with advanced digital capabilities. Take advantage of fast turnaround time, improved data handling and less risk of human error. Kjeltec 9 is verified against official standards such as AOAC and ISO.

Sample types

Raw materials and finished products in feed and agriculture.

Parameters

Nitrogen, protein and non-protein nitrogen (NPN).

Dumatec™ 8000

The fully automated Dumatec™ 8000 is based on the combustion principle for nitrogen determination and improves laboratory efficiency and productivity, making it the perfect choice for busy laboratories. Provides reliable and rapid results in just 3-5 minutes with instantaneous analysis of all resulting gases. The Dumatec is very reliable ensuring a high level of accuracy across a full range of calibrations. A rapid start up time of 30 minutes as well as high unattended operator time with the 117 position auto sampler, ensures high uptime.

Sample types

Raw materials and finished products, both in solid and liquid form, in food, feed and agriculture.

Parameters

Nitrogen/protein.

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