

About BEC

At BEC we are committed to servicing the feed industry with innovative feed and animal nutrition solutions. We are a leading supplier of premixes, feed additives and ingredients and feed commodities. All of this supported by formulation services, nutritional advice and market information.

With over 25 years experience servicing the animal feed and livestock industries, we understand the challenges of meeting nutrient requirements. This experience, in conjunction to our commitment to meeting and exceeding customer needs, has honed our capacity to ensure optimum health and performance in animals with the ultimate goal of improving our customers' bottom line.

The PNE platform has been developed by Adisseo who is one of the world's largest manufacturers of natural solutions for animals. As Adisseo's representative in Australia, we have introduced the PNE service to the Australian market to provide end-users additional flexibility when sourcing ingredients, making purchasing decisions and formulating diets.



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Precise Nutrition Evaluation



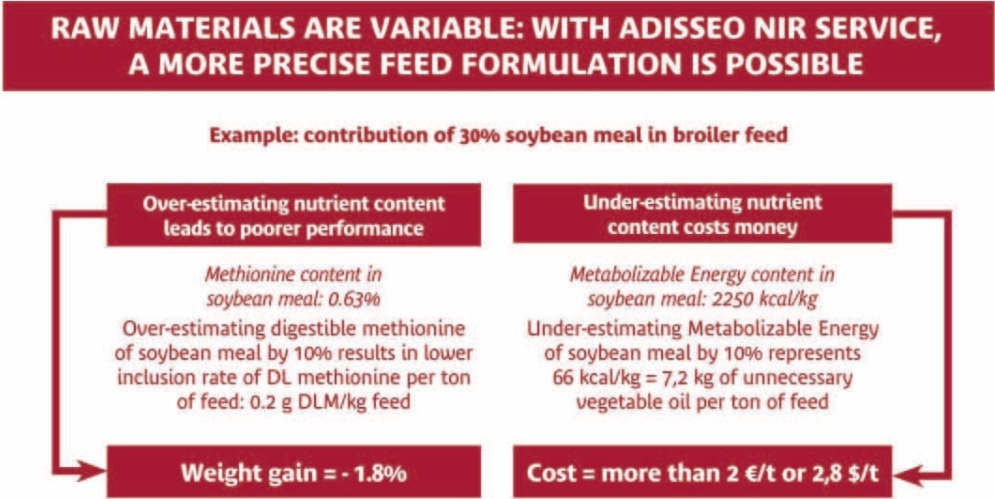
Precise Nutrition Evaluation (PNE) service at BEC provides nutritionists and other feed ingredient professionals with the means to determine the total and digestible amino acids, total and phytic phosphorus, and metabolisable energy of specific feed ingredients.

The PNE service combines Near Infrared Reflectance Spectroscopy (NIR) Scans with extensive nutrient database analysis of feed ingredients. This database has been developed by Adisseo and is derived from *in vivo* digestibility trials and validated wet chemistry methods.

Nutritional specifications of ingredients can change rapidly and without notice. Variations can occur due to growing and harvesting conditions, by-product types and sources, and manufacturing processes. PNE is a unique tool which provides swift understanding of specific nutritional values of feed ingredients.

PNE Service Features:

- Web based platform which can process and provide analysis of NIR results swiftly.
- It is not necessary for you to have NIR facilities. Analysis of results can be provided from physical samples, alternatively if you have NIR, results can be provided from spectra as well.



Benefits

It gives nutritionists and feed companies a competitive edge in several ways.

- More Accurate Raw Material Sourcing**
PNE provides nutritionists the ability to track, understand, and wisely use ingredient supplies.
- More Data to Monitor Feed Production and Animal Performance**

It greater enables nutritionists the ability to formulate diets according to specific performance goals (e.g. market weight, feed conversion, meat yield, etc.).

- More Accurate evaluation of the nutrients available for the animals based on *in vivo* testing methods**

PNE better enables nutritionists to manage dietary costs through providing an understanding of nutrient profile of ingredients

- More Accurate Quality Control**
Greater traceability of nutrients provides more accurate quality assurance.

MAIN NIR CALIBRATIONS AVAILABLE WITH ADISSEO NIR SERVICE

	Corn	Wheat	Other cereals	Soybean meal	Other oilseed meals	M & B meals	Other animal by-products
Total amino acids ⁽¹⁾	*	*	*	*	*	*	*
Digestible Amino Acids (poultry) ⁽²⁾	*	*	*	*	*	*	*
Metabolizable Energy (poultry) ⁽²⁾	*	*		*			
Total and Phytic Phosphorus	*	*	*	*	*		

⁽¹⁾ HPLC ⁽²⁾ HPLC + in vivo measurement Other calibrations are under development

Proximate analysis and Digestible Amino Acids (pig) calibrations are also available depending on region.