

XTRACT™ systems for ruminant's road show.

Allied Nutrition and Pancosma hosted a national technical plant extract road show in February 2011. In house technical meetings meeting's with leading feed suppliers, feedlotter



and farmer and feedmiller days in Lichtenburg, Centurion, Stellenbosch and Port Elisabeth were held to introduce this new technology to the South African feed industry.

Plant extracts have been around as long as man and are used in our every day diet. However it has long been postulated that certain of these plant extracts may hold medicinal and healing properties. Between the years 2000 to 2010, more than 31 paper have been published and in light of the European AGP ban in 2006, the interest in plant extracts as performance enhancers for dairy cows or growing cattle has gained great popularity in the European Union.

Pancosma, regarded as leaders in this field of technology and in collaboration with Prof. Sergio Calsameglia of the University of Barcelona, after a long term research program studying the effects of at least 50 different plant extracts and their active substances on rumen function and animal behaviour, the **XTRACT™** system for ruminants was developed. **XTRACT™** system for ruminants is made up of two unique plant extract blends of Eugenol, Cinnamaldehyde and Capsicum to make **XTRACT™ X60-7065™** (beef product) and **XTRACT™ X60-6965** (Dairy product). All ingredients are micro encapsulated, standardised combination of active plant extracts that are naturally occurring in aromatic plants and spices.



Port Elizabeth Feedmiller and Farmers day,
hosted by ABAC.

From Left to right: Andre Bezudenhout of ABAC, Prof. Sergio Calsameglia of the University of Barcelona, Florence Rudeaux of Pancosma and Rudolf H. van der Veen of Allied Nutrition.

During the road show Prof. Calsameglia showed that these plant extracts

- 1) Are products of the secondary metabolism
- 2) Some exhibit antimicrobial activities against bacteria, yeast and moulds (Balandrin and Klocke, 1985)
- 3) Are classified as GRAS (Generally Recognised as Safe) (D-1999/217/CE; FDA, 2004).

Furthermore Prof Calsameglia demonstrated with numerous *in vitro* and *in vivo* trials that out of all the plant extracts, Eugenol, Cinnamalderhyde and Capsicum have specifically been chosen as they exhibit:

- 1) Increased energy extraction through the production of more volatile fatty acids(VFA's),
- 2) Modifying the C2:C3 ratio by promoting propionate and butyrate at the expense of acetate,
- 3) Increased protein metabolism efficiency by reducing rumen deamination and,
- 4) Control or fractionate feed intake patterns to reduce the risk of large changes in rumen pH.



In summary, **XTRACT™ X60-7065™** and **XTRACT™ X60-6965** are suitable for adding to a wide variety of rationing systems and can be used as suitable alternatives to common rumen modifiers (chemical or natural) that are available on the market.



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