

## **Certification of Green Inputs for Livestock Production**

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The increasing demand for livestock products is putting pressure on the livestock sector to produce more with limited resources (FAO, 2016). This increased demand brings challenges in terms of global resource usage and food security. Possibly one of the most important challenges facing animal agriculture is reducing the use of antibiotics in livestock production. The positive association between AMR and antimicrobial consumption (AMC) is confirmed for most of the AM-combinations investigated, in both humans and animals (EFSA, 2017), which emphasizes the fact that keeping antimicrobial medicine use low will lead to less risk for environmental, human and animal health, including the development of antimicrobial resistance.

In this current context, the development of alternative practices to feed and treat animals is a top priority within the sector. Therefore, the objective of this work is to present the development of a certification process for Green Inputs logo to be used on livestock production.

The CAAE Green Inputs® Logo has been developed by CAAE certification Service. The logo certifies that the products has i) Non-residual natural origin of compounds with proven efficacy, ii) no GMOs and iii) is in compliance with RE (CE) 834/07 Directive.

The actual work is being conducted through a collaborative framework between CAAE and CSIC and involve the following activities: i) analysis of the composition in metabolites of different plant extracts and essential oils by a combined analytical platform of LC-MS and GC-MS, ii) design of on-farm trials to test the efficacy of the treatments, iii) evaluation of trials results to elaborate the corresponding scientific report. Whilst CAAE has long experience in certification service as International Entity accredited for the EU for the European Organic Production Standard RE (CE) 834/07 and USDA for the National Organic Program (NOP); the department of physiology and biochemistry of animal nutrition at CSIC have expertise in the state of the art research of animal feed additives.

During the course of the conference the authors will present the first results of both the analytical platform and the farm trials.