

Bio-fertilizer production from livestock manure using advanced separation systems (PROBIOSEP)

Summary

Animal manures have been used for centuries as a fertilizer, but have created an environmental problem for its application in excess. In parallel with the current European Union strategy, that integrates manure management and organic fertilization to ensure a sustainable agriculture in Europe, the PROBIOSEP project proposes the valorisation of the fractions resulting from (filtering) anaerobically digested manure as fertilizers as economically feasible output to manage the surplus N from manures. An assessment of the agronomic quality, as well as how to adapt their physicochemical conditions to ensure their transport to areas likely to be fertilized properly, will be done.

Objectives

The main objective is to develop organic fertilizers with high added value from livestock waste, minimizing the environmental impacts of their management. Other related objectives are: (1) Identify agronomic qualities and uses in different cultures and applications; (2) Market study for these products in different agricultural sectors; (3) Marketing plan to adjust its output to market; (4) Optimize the processes involved in their production, including environmental indicators (life cycle analysis, C foot, etc.); (5) Dissemination plan to introduce products and promote the use of organic based fertilizers.

Conclusions

Foundation of the PROBIOSEP group.

Writing a project that will develop the following points: (1) Agronomic characterization of solid and liquid fractions (of digested anaerobically slurry) as fertilizer or organic amendment. (2) Study to choose the best drying option for the solid fraction (of anaerobically digested manure) regarding the market framework. (3) Available options for registration of developed products as fertilizers. (4) Available options study for the developed products regarding appropriate markets to be addressed taking into account their agronomic value, conditions and time-course of the soil application.

Operational Group Leader

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Tipologia d'entitat:
Agrupació o associació de productors agraris

Keyword-category

Farming equipment and machinery
Fertilisation and nutrients management
Waste, by-products and residues man

Territorial scope

<i>Província</i>	<i>County</i>
Tarragona	
Lleida	
Girona	
Barcelona	

Project dissemination *(publications, seminars, multimedia...)*

La SAT de Ramaders del Porquí d'Almenar ha informat als seus associats de tot el relacionat amb la creació del Grup Operatiu a través de les seves Juntes.

Project website

Other project information

Project period

Approved budget

Starting date (month-year): Novembre 2015

Total budget: 28.571,20 €

End date (month-year): Setembre 2016

Funding source DARP: 11.399,91 €

Project status: *Finalised*

Funding source EU: 8.599,93 €

Own funds: 8.571,36 €

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Ordre ARP/258/2015, de 17 d'agost, per la qual s'aproven les bases reguladores dels ajuts a la cooperació per a la innovació a través del foment de la creació de grups operatius de l'Associació Europea per a la Innovació en matèria de productivitat i sostenibilitat agrícoles i la realització de projectes pilot innovadors per part d'aquests grups, i es convoquen els corresponents a 2015.

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