

対象国農畜産分野における開発ニーズ(課題)

- 家畜への抗生物質やワクチンの大量投与とそれに伴う飼育コストの増加
- 上記に起因する家畜ふん尿の悪臭や環境汚染
- 上記に起因し、現地での排泄物からの堆肥生産が困難となっている(輸入依存率の上昇)

提案製品・技術

- 菌数(生菌数)が多く、品質保持期限が長い乳酸菌の生成、製品化
- 家畜類の疾病予防、家畜・野菜等の成長促進、廃棄物処理場での消臭効果など複合的な効果を通じ、様々な分野で活用
- 抗生物質の抑制や腸内環境改善を通じたふん尿質の改善

案件概要

- 契約期間:2024年4月～2025年11月
- 対象国・地域:ベトナム国Phu Yen省および周辺省
- 相手国実施機関:ベトナム国農業農村開発省ベトナム農業科学アカデミー、
Phu Yen省農業ハイテクパーク
- 案件概要:乳酸菌資材の流通可能性と有効性調査を行うとともに、現地環境下での乳酸菌増殖と品質保持に関する調査検討を実施する。併せて現地での乳酸菌培養可能性と現地家畜・作物への効用の実証と現地普及体制を構築するODA案件形成を目指す。



乳酸菌資材の例
(畜産用土壤菌培養液)

開発ニーズ(課題)へのアプローチ方法(ビジネスモデル)

- 乳酸菌生産事業の展開:現地パートナー企業と連携したうえで、生産・販売の実施
- 大規模・小規模生産者それぞれに適した販売モデルを検討し、展開
- ふん尿質が改善された堆肥を活用した農業生産者への堆肥販売
- C/P機関とも連携しながら生育促進等のデータを蓄積しながらの販路開拓

対象国に対し見込まれる成果(開発効果)

- 家畜類の抗生物質やワクチンの投入抑制と飼育コスト削減
- 家畜類ふん尿質の改善
- 資材としての活用や排泄物からの堆肥利用による青果類の生育促進・収量増

Development Issues Concerned in agricultural and livestock Sectors

- Massive administration of antibiotics and vaccines to livestock and the associated increase in rearing costs
- Odor and environmental pollution from livestock manure
- Compost production from local excreta has become difficult.

Products/Technologies of the Company

- Generation and commercialization of lactic acid bacteria with high bacteria counts and long quality retention time
- Utilized in various fields such as disease prevention for livestock, growth promotion for livestock and vegetables, and deodorizing effect at waste disposal sites
- Improvement of fecal quality through antibiotic suppression and improvement of intestinal conditions

Survey Outline

- Survey Duration : Apr, 2024 ~ Nov, 2025
- Country/Area : Phu Yen Province, Vietnam
- Name of Counterpart : Vietnam Academy of Agricultural Science
- Survey Overview : The project will conduct a distribution feasibility and effectiveness study of lactobacillus materials, as well as a study of lactobacillus propagation and quality maintenance. At the same time, we aim to form an ODA project to demonstrate the feasibility of culturing lactobacilli and their efficacy for livestock and crops, and to establish a dissemination system.



Soil bacteria culture solution for livestock farming

How to Approach to the Development Issues

- Implement production and sales in cooperation with local partner companies
- Consider and develop a sales model suitable for producers
- Compost sales to agricultural producers utilizing compost with improved manure quality
- C/P Organization Developing sales channels while accumulating data on growth promotion

Expected Impact in the Country

- Reduction of antibiotic and vaccine inputs and cost of raising livestock
- Improvement of livestock manure quality
- Promoting growth and increasing yields of fruits and vegetables by using them as materials and compost from excrement