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Environment-friendly packaging solutions for enhanced storage and quality of southern africa's fruit and nut exports

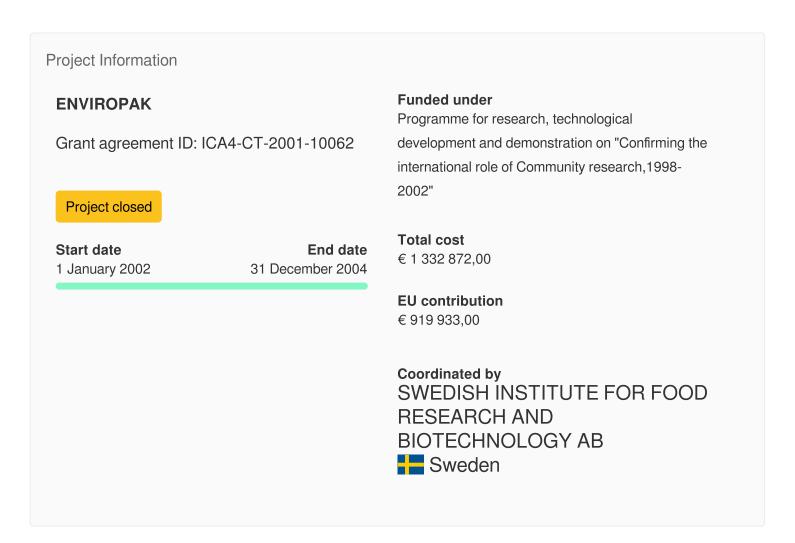


Content archived on 2024-06-17



# Environment-friendly packaging solutions for enhanced storage and quality of southern africa's fruit and nut exports

## **Fact Sheet**



# **Objective**

The primary aim of this project is to develop and manufacture novel high value edible coatings and films to improve the shelf-life quality of southern Africa's fruits and

peanuts to enhance the growth of these important export industries. An inexpensive, renewable raw material, sorghum bran, from southern Africa's indigenous sorghum cereal industry will be used to extract the protein airing, which is water insoluble, non-allergenic, and expected to have good gas barrier and mechanical properties, i.e. airing would make excellent edible barrier coatings. We will develop extraction and coating procedures and modifications of the protein, thermoplastic processing, sensory evaluation of coated fruits and peanuts and controlled release of preservatives from coatings to products, all through a multi-disciplinary approach in co-operation with the fruit export industry.

# Fields of science (EuroSciVoc) 6

agricultural sciences > agriculture, forestry, and fisheries > agriculture > horticulture > fruit growing

natural sciences > biological sciences > biochemistry > biomolecules > proteins

engineering and technology > materials engineering > coating and films

agricultural sciences > agriculture, forestry, and fisheries > agriculture > grains and oilseeds > cereals



# Programme(s)

FP5-INCO 2 - Programme for research, technological development and demonstration on "Confirming the international role of Community research, 1998-2002"

# Topic(s)

Data not available

# Call for proposal

Data not available

# **Funding Scheme**

CSC - Cost-sharing contracts

## Coordinator



#### SWEDISH INSTITUTE FOR FOOD RESEARCH AND BIOTECHNOLOGY AB

EU contribution

No data

Total cost

No data

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Total cost

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Total cost

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EU contribution

No data

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Total cost

No data



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No data

Last update: 12 April 2005

Permalink: https://cordis.europa.eu/project/id/ICA4-CT-2001-10062

European Union, 2025