ELECTRICAL IMPEDANCE-BASED SYSTEM TO MONITOR DRYING PROCESS IN SAUSAGES

Fact Sheet

Project Information

DRYCHECK

Grant agreement ID: 262029

Funded under
FP7-SME

Overall budget
€ 1 483 447,55

Project website

EU contribution
€ 1 136 621,53

Status
Closed project

Coordinated by
NTRAM GENERAL S.A.
Spain

Start date
1 September 2011

End date
31 August 2013

Objective

Dry fermented sausage production comprises an important segment of the European meat industry and market. However, the European meat processing industry is extremely fragmented and characterised by businesses of very small size. Small and medium enterprises play an important role in the food sector, both in economical and social terms. The traditional and farm workshops are often based in rural area where the density of inhabitants is low and, for this reason, the diversification of the production has direct implications for employment and the maintenance of these traditional enterprises has a great economic impact.

The sensory characteristics of food products are essential for consumers and the challenge for consortium SME sausage producers lies in increasing production while minimizing product variability, maintaining flavour and desired texture and assuring product safety. Fermentation and maturation play a pivotal role in the final sausages quality. Maturation requires the precise control of two critical parameters – relative humidity and temperature – that are crucial for the product’s final sensory
humidity and temperature – that are crucial for the product’s final sensory characteristics and safety. The main objective of this project is to design and develop: (i) an analytical system that could be incorporated in ripening/drying chambers to provide information on the evolution of the relative water content and distribution in representative sausage samples along the chamber, as well as a local indication of the temperature and relative humidity values near those samples. (ii) A drying chamber control system which uses the information from the multi-sensor system to readapt the environmental conditions in the chamber for a correct drying process.

The proposed DryCheck project will give SMEs a practical tool with which improve the production of quality sausage with a user-friendly albeit advanced technology product at an affordable cost.

Field of science
/social sciences/economics and business/business and management/commerce
/social sciences/economics and business
/engineering and technology/industrial biotechnology/bioprocessing technologies/fermentation
/social sciences/economics and business/business and management/employment

Programme(s)

Topic(s)

Call for proposal

FP7-SME-2010-1

Funding Scheme

BSG-SME - Research for SMEs

Coordinator

NTRAM GENERAL S.A.

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Calle Victor Pradera 45
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

EU contribution
€ 63 438,72

Website
Contact the organisation
Participants (8)

SALUMIFICIO GALLI REMO SRL
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Activity type
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Administrative Contact
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EMBUTIDOS LUIS GIL SL
Spain
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PERTEC SRL
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United Kingdom
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Activity type
Private for-profit entities
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STEVIA KERESKEDELMI ES SZOLGALTATO KORLATOLT FELELOSSEGU TARSASAG

Hungary
EU contribution
€ 185 028.80

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Activity type
Private for-profit entities
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UNIVERSITAT POLITECNICA DE CATALUNYA

Spain
EU contribution
€ 30 247.32

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Activity type
Higher or Secondary Education Establishments
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Activity type
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