

Danish Meat Research Institute

Tel. +45 7220 2000 Maglegaardsvej 2 Fax +4572202744 DK-4000 Roskilde

Email dmri@dti.dk www.DMRI.com



DANISH MEAT **RESEARCH INSTITUTE**



New ham product with seaweed

Lise Nersting, Kirsten Jensen



Objective

The aim of this study was to develop a new ham product with seaweed added as a healthy ingredient.

Introduction

Seaweed has high levels of vitamins, minerals, flavonoids and antioxidants and is considered to be very healthy. The seaweed Wakame and Dulce are applicable, because they are commercial available, have a mild taste, and low iodine content.



Results

Adding seaweed resulted in distinctly different appearance of the ham.







Ham with Dulce

Ham with Wakame

Traditional ham

- Cooking loss was reduced in the ham with Wakame
- Cooking loss was increased in ham with Dulce
- Slice ability (100%) and texture were comparable with traditional ham.

Materials and methods

Sandwich ham was produced from chopped Musculos semimembranosus, 1% of seaweed (Wakame or Dulce) in dry weight was added and tumbled to a 20% weight gain. The ham was heat treated to a core temperature of 75°C, cooled, sliced and packed in modified atmosphere 30%CO₂/70%N₂. Salt in final product was 1.5% NaCl.

Cooking loss, slice ability and shelf life were measured. Holistic analyses were used for consumer test where the products were associated with emotional responses.

The microbiological and sensory shelf life of sliced MA-packed

(30% CO₂/70%N₂) ham with seaweed was not affected

- Positive consumer responses such as: "exciting, surprising, exotic and healthy".
- 63% of the consumers reported that they would like to buy the product.

Acknowledgement

The project was funded by the Danish Pig Levy Fund and the Danish Directorate for Food, Fisheries and Agri Business (j.no. 3414-10-02699).

Conclusions

A healthy new ham product with seaweed added can be produced with low cooking loss, good texture and slice ability. Consumers were very positive towards the new ham product and described it as exciting, surprising and exotic.

