

Poster

# VERIFICATION OF THE METHOD TO DETERMINE THE MOISTURE CONTENT IN MEAT PRODUCTS



Amanda Gil(1), Adela Gavira(2), Juan José Camacho(1), Jesús Rexach(1)

(1) Departamento Fisiología, Anatomía y Biología Celular. Universidad Pablo de Olavide. Ctra. de Utrera, km 1. 41013 Sevilla – España.

(2) Laboratorio Innoagral. Universidad Pablo de Olavide. Edificio 47. Laboratorio 2-03. Ctra. de Utrera, km 1. 41013 Sevilla – España.

**Keywords:** moisture content; ISO 9001:2015; checking; meat and meat products

## ABSTRACT

### Motivation

There are various reasons why food industries can determine humidity, becoming highly important the issue of growing microorganisms caused by an excess on water in raw materials. The normative ISO 9001:2015 is essential for the implantation of an improved orientated system having guarantees to comply with the requirements of the product or service as well as meeting customer's expectations.

### Methods

The drying methods are the most common ones to assess food moisture content. Although these methods give good results, it is difficult sometimes to remove all the humidity by drying. It is also important to mention that food can decompose at certain temperature so other substances can volatilize apart from water. Thus, the measurement of weight loss of the sample caused by water evaporation is made with a forced air circulation heater at atmospheric pressure, according to ISO 1442:1997.

### Results

**During the evaluation the checking of the procedures requires the application of uniform and consistent technical criteria. Due to the importance of meat and meat products because of its high protein in the human diet and its huge quantify demand that is analyzed in laboratories, it is observed by graphical representation the tendency of the obtained data. The proper temperature is 105°C.**

### Conclusions

The method to quantify the moisture content of various meat products is valid obtaining reliable results with the possibility of its future accreditation.

## REFERENCES

- (1) ISO 1441-1997. Meat and meat products. Determination of moisture content.
- (2) ISO 9001-2015. Sistema de gestión de la calidad. Requisitos.
- (3) Tirado, D.F.; Montero, P.M.; Acevedo, D.M. (2015). Comparative Study of Methods for Moisture Determination of Several Food Matrices. Inf. tecnol, 26(2), 03-10.