

DANISH MEAT RESEARCH INSTITUTE



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# Nutritional

# composition of Danish Beef



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#### **Objectives**

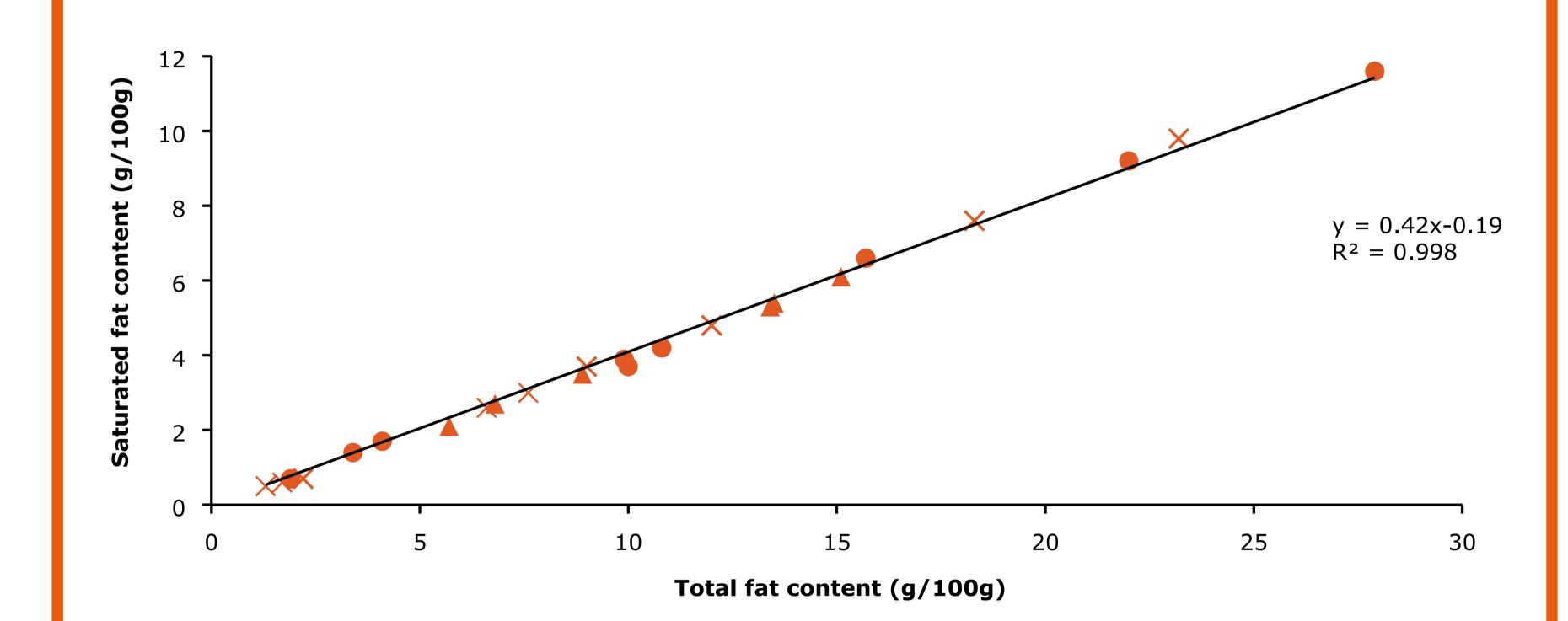
To document up-to-date nutrient data on protein, total and saturated fat in Danish Veal and Beef products for EU nutritional labelling.

### Materials and Methods

In 2014/2016, EU requires nutrition labelling (Reg. 1169/2011) of the following nutrients on packed food products:

#### Results

The saturated fat content for the 78 Veal and 76 Beef products was calculated from the total fat content: saturated fat =  $0.42 \times 1010$  (figure 1).



- Energy
- Fat
- Saturated fat
- Carbohydrates



- 8 Veal and 8 Beef Holstein Friesian carcasses were selected (table 1)
- Commercial deboning and trimming was performed into 78
  Veal and 76 Beef products

Sugars

Protein

Salt

- A full product catalogue with product pictures is given on www.teknologisk.dk/31186
- The 8 samples for each product were pooled into one sample
- Chemical analyses included total fat and protein
- Saturated fat analysis was performed on selected Veal and Beef products in order to establish a relationship to total fat

Table 1. Characteristics of selected average Danish Veal and Beef Carcasses (mean values).

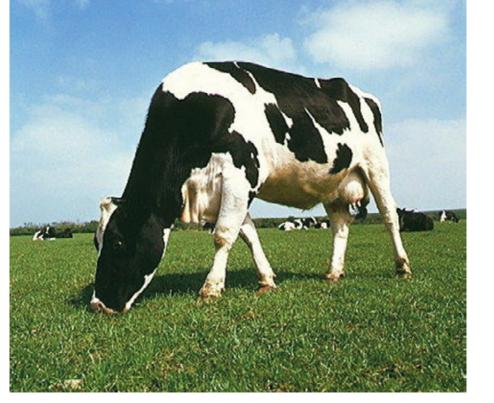
Figure 1. A clear linear relationship was established between total and saturated fat content in selected Veal cuts (×), Beef cuts (●) and ground beef (▲).

Table 2. Extracted nutrient data for 6 average Danish veal and beef product (g/100 g).

	VEAL			BEEF		
Item	Total fat	Sat. fat	Protein	Total fat	Sat. fat	Protein
Entrecote w/bones	11.2	4.5	19.7	15.7	6.4	20.4
Tenderloin with fat & strap muscle	7.5	3.0	20.2	9.5	3.8	19.3
Tenderloin without fat & strap muscle	2.7	0.9	20.8	4.8	1.8	19.9
Topside	4.5	1.7	21.2	5.3	2.0	21.0
Flank steak	4.5	1.7	20.9	6.7	2.6	20.0
Liver	2.9	1.0	19.1	3.3	1.2	19.2

	n	Кġ	month					
Calf <sup>2</sup>								
Z	8	211.3	9	3.8	2.3			
Beef <sup>3</sup>								
A	2	266.5	12	4.6	2.6			
E	2	247.8	30.5	1.8	2.3			
D	4	293.4	63.3	2.1	2.5			

<sup>1</sup>EUROP. <sup>2</sup>Age >8 to  $\leq$  12 months. <sup>3</sup>A: Young bull, E: Heifer, D: Cow



Conclusion New nutrient data on Danish Veal and Beef offers numerous products with <10% fat

