

Quantitative determination of fat / Soxhlet extraction

Article no: P3120200



Principle

The discussion of healthy nutrition focuses on the fat content of foodstuffs. For this reason, it is important to know the exact fat content of individual foodstuffs. The experiment shown here presents a method for the quantitative determination of the fat content of foodstuffs by extraction using a Soxhlet apparatus. This small size of this Soxhlet extractor makes it possible to extract small quantities using extremely small amounts of solvent.

Benefits

- Controlled and safe heating via heating mantle and power regulator
- Secure connection of the items by GL screw joint system

Tasks

Calculate the fat content of a sausage using soxhlet extraction.

Learning objectives

- Soxhlet apparatus
- Fat extraction
- Food chemistry
- Food analysis

Necessary accessories

- Precision balance 620g/0.001g

Scope of delivery

Extraction tube,type Soxhlet, GL 25/12	MAU-27226000	1
Dimroth-Condensor, GL 25/12	MAU-27223500	1
Extraction sleeves 10x110mm, pkg 25	32995-00	1
Boiling beads, 200 g	36937-20	1
Heating mantle f. roundbottom flask, 100 ml	49541-93	1
Clamp for heating mantle	49557-01	1
Power regulator	32288-93	1
Short distillation head, GL 18/8	MAU-27224500	1
Lab thermometer,-10..+110 °C	38056-00	1
Round bottom flask, 100ml, GL 25/12	MAU-27100001	1
Support base, variable	02001-00	1
Support rod, stainless steel, different lengths	02037-00	1
Boss head	02043-00	2
Universal clamp	37715-01	2
Mortar with pestle, 150 ml, porcelain	32604-00	1
Beaker, boro, low-form	46055-00	1
Laboratory pen, waterproof, black	38711-00	1
Rubber hose	39282-00	1
Hose clip, diam. 8-16 mm, 1 pc.	40996-02	1
Spoon, special steel	33398-00	1
Crucible tongs, 200 mm, stainless steel	33600-00	1
Protecting glasses, clear glass	39316-00	1
Rubber gloves, size M (8), one pair	39323-00	1
Universal oven, 32 liters, 230 V	49559-93	1
Petroleum ether, 40-60 C 250 ml	30184-25	1
Sodium sulphate dried 250 g	48344-25	1