

SoxCap™ 2047 Hydrolysis Unit



The SoxCap™ 2047 is a simple solution for total fat analysis prior to solvent extraction using the Soxtec™ Systems.

Features and benefits

- No sample transfer in combination with batch handling tools improves measurement precision and speeds up analysis
- Low system investment cost
- For operator safety and convenience acid fumes are automatically removed
- Fast filtration and washing of samples thanks to SoxCap™ capsule* design
- Minimum use of Celite**
- No contact with hot acid during hydrolysis, filtration or washing. The entire analysis takes place in a closed vessel
- Compact system requiring minimum bench space



System description

The SoxCap 2047 features a new technique combining superior performance with low investment. It offers a solution for hydrolysis of food and feed samples, in accordance with recognized methods, prior to solvent extraction.

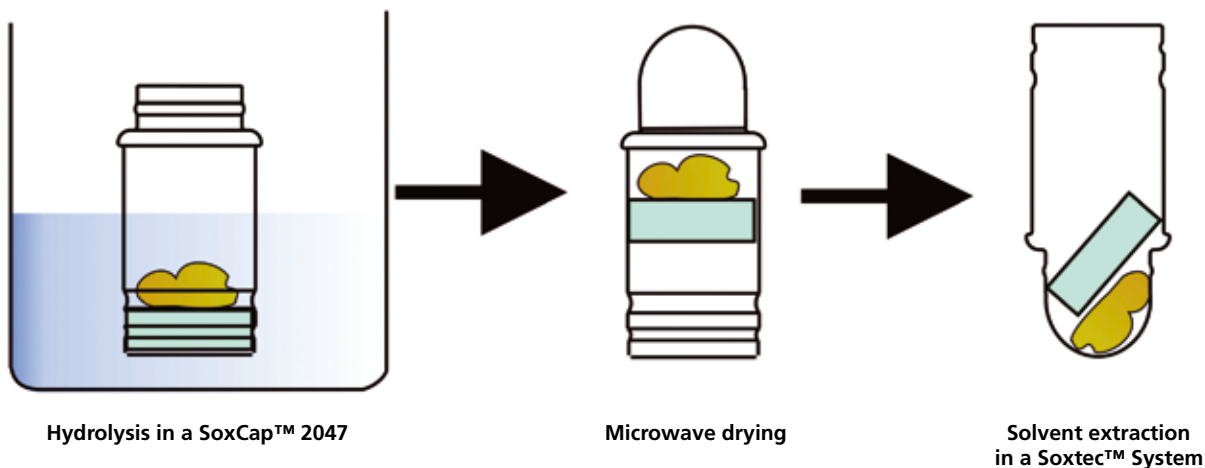
The SoxCap system performs hydrolysis, filtration and washing without any sample transfer, with minimum manual handling using batch handling tools. The system does not require to be placed in a fume hood, as it has a built in fume removal system. After hydrolysis, filtration and washing is done inside the beaker within minutes, ensuring no contact with the hot hydrolysis solution.

The sample is weighed into a SoxCap glass capsule fitted with a disposable filter. After hydrolysis the glass capsule is simply turned upside down, a cellulose thimble is fitted on top and the capsule is placed in the Soxtec for the solvent extraction step.

The patented technique is based on the SoxCap capsule's ability to hold the fat present in the sample during hydrolysis and release it during solvent extraction.

* patent pending

** only with liquid samples and very fine particle size samples



Hydrolysis in a SoxCap™ 2047

Microwave drying

Solvent extraction in a Soxtec™ System

System description:

- 20470001 SoxCap™ 2047, 230 V, 50-60 Hz comprising:*
Ceramic Hot Plate 2022, Condenser holder with valve plate, Condenser, Hydrolysis Beaker, Beaker, Boiling Stand, Capsule Tray (set of 2), Drying Stand, Glass Capsules (2 sets of 6), Filters (set of 100), Thimbles (set of 25), Adapters (set of 6), Cotton, Water Aspirator, User Manual
- 20470002 SoxCap™ 2047, 115 V, 50-60 Hz. As above.
- 20470003 SoxCap™ 2047^{mini}, 230 V, 50-60 Hz comprising:*
Ceramic Hot Plate 2022, Condenser holder with valve plate, Condenser, Hydrolysis Beaker, Beaker, Boiling Stand, Capsule Tray (set of 2), Drying Stand, Glass Capsules^{mini} (2 sets of 6), Filters (set of 100), Thimbles (set of 25), Adapters (set of 6), Cotton, Water Aspirator, User Manual
- 20470004 SoxCap™ 2047^{mini}, 115 V, 50-60 Hz. As above.

Accessories:

- 10012381 Filters, set of 100
- 15220053 Cellulose Thimbles 28 × 22 mm, set of 25
- 10012233 Hydrolysis Beaker
- 10011595 Beaker, Low
- 10013849 Condenser
- 10013840 Condenser with drip tray assembly
- 10012227 Boiling Stand
- 10012229 Drying Stand
- 10012230 Capsule Tray
- 10012379 Adapters, set of 6
- 10012378 Glass Capsules, set of 6
- 15290009 Cotton, defatted
- 60022802 Glass Capsules^{mini}, set of 6

Performance data:

- Sample size: 0,5 - 3 g
- Hydrolysis time: 60 min
- Measuring range: 0,1 - 100 % fat
- Capacity per batch: 6 samples simultaneously
- Capacity per day: Up to 30 analyses

Installation requirements:

Equipment	Power supply	Power consumption	Dimensions w × d × h	Weight	Water supply
2022 Hot Plate	230 V, 50 - 60 Hz 115 V, 50 - 60 Hz	500 W	19 × 30 × 11 cm	2,5 kg	2 taps needed: 0,4 l/min Tap water for vacuum pump

*Ordering information: Use the above specified Cat. Nos. together with the text.

FOSS

FOSS Analytical
69, Slangerupgade
DK-3400 Hilleroed
Denmark

Tel.: +45 7010 3370
Fax: +45 7010 3371

info@foss.dk
www.foss.dk

