FiberCap™ 2021/2023 Fibre Analysis System

A modular system for simple analysis of crude and detergent fiber.

Features and benefits

- 18 & 6 position systems for crude fibre, NDF, ADF & ADL
- Results in agreement with official procedures
- Low investment cost giving unique performance/ price ratio
- FiberCap™ capsule design ensures accurate analysis and superior precision
- Batch handling with no sample transfer
- Rapid filtration for all sample types saves time
- Multiple systems are easily operated for high throughput
- Small bench space needed

Description

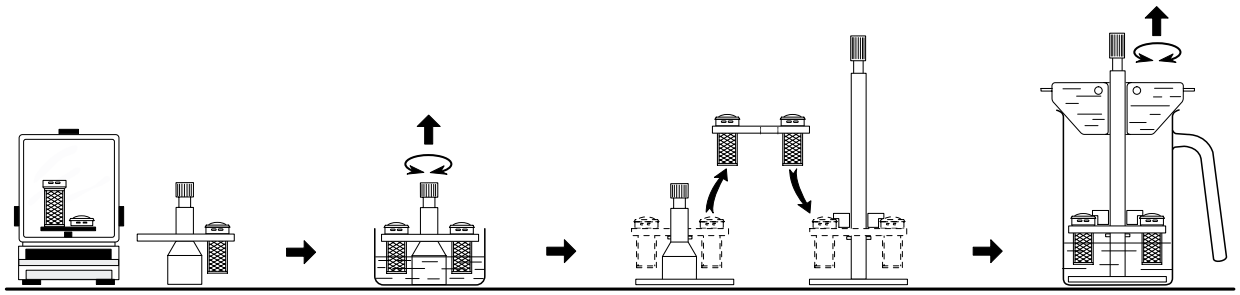
The FiberCap system is specifically designed to provide a low cost, high capacity solution for fibre determination in accordance with the Weende and van Soest methods. Batch handling, with no sample transfer, is used throughout the procedure. Defatting, boiling, rinsing and filtration are performed under reproducible and controlled conditions.

The system offers substantial savings both in manual handling and time as well as improved analytical precision compared to manual methods.

The capsule is a polypropylene container with a simple snap on lid, once sealed, there is no sample transfer. The different chemical properties of the membranes used in the capsule and the lid ensure free flow of reagent through the FiberCap during analysis. This feature guarantees repeatable conditions for all sample types, even high starch samples can easily be determined. Filtration or washing is done in seconds for all sample types.

Two versions of capsules are available, having different mesh size, offers the possibility to match results either with the filter paper method (white capsule) or the crucible method (green capsule).

The FiberCap is available in either 18 or 6 position systems and one operator can easily handle several systems simultaneously giving a very high throughput. For example, 4 batches with the 18 position system give 72 finished extractions in 1,5 h.



Weighing **De-fatting** **Batch transfer** **Extraction**

System description

2021 0001 FiberCap 2021 (6 position) 230 V, 50 Hz. Including all accessories necessary for analysis whereof 100 pcs of capsules (white)
2021 0004 FiberCap 2021, 115 V, 50-60 Hz. As above.
2021 0011 FiberCap 2021 230 V, 50 Hz. Including all accessories necessary for analysis whereof 100 pcs of capsules (green)
2021 0014 FiberCap 2021, 115 V, 50-60 Hz. As above.
2023 0001 FiberCap 2023 (18 position) 230 V, 50 Hz. Including all accessories necessary for analysis whereof 100 pcs of capsules (white)
2023 0003 FiberCap 2023, 115 V, 50-60 Hz. As above.
2023 0011 FiberCap 2023 230 V, 50 Hz. Including all accessories necessary for analysis whereof 100 pcs of capsules (green)
2023 0013 FiberCap 2023, 115 V, 50-60 Hz. As above.

Accessories:

1524 0010 2022 Hot Plate 230 V, 50 Hz
1524 0011 2022 Hot Plate 115 V, 50 - 60 Hz
1001 0332 Boiling Stand
1001 0224 Capsule Tray, 6 position
1001 0334 Capsule Tray, 18 position
1001 0137 Extraction Beaker, 6 position
1001 0546 Extraction Beaker, 18 position
1001 0331 Drying Stand
1001 0347 FiberCap capsules, 100 pcs
1001 0346 FiberCap capsules, 500 pcs
1001 0262 Stopper, 6 position
1001 0335 Stopper, 18 position

Performance data:

Sample size:	0,5 - 3 g
Measuring range:	0,1 - 100 %
Capacity per batch:	6 samples or 18 samples simultaneously
Capacity per day: (6 batches)	Up to 216 analyses (Crude fibre) using six Fibertec 2021 Systems in parallell, 108 analyses (Crude fibre) using one Fibertec 2023.
Repeatability:	± 1 % relative at 5 - 30 % fibre level

Installation requirements:

Equipment	Power supply	Power consumption	Dimensions w × d × h	Weight	Water supply
2022 Hot Plate	230 V, 50 Hz 115 V, 50 - 60 Hz	500 W	20 × 30 × 35 cm	2,5 kg	0,4 l/min
Furnace	Note; the furnace used during the analysis must be well ventilated, due to the build up of smoke.				

Applications:

• Crude Fibre • NDF (Neutral Detergent Fibre) • ADF (Acid Detergent Fibre) & ADL (Acid Detergent Lignin)
The Fibertec™ 2021 and 2023 System are also suitable for use with almost any chemical.
Materials used are glass, PTFE; PEEK, PP, PET & PA.

** Ordering information: See separate price-list*

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