Fibertec™ 2021/2023 FiberCap

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

Features and benefits

- 18 position & 6 position systems for increased versatility
- Crude fibre, NDF, ADF & ADL
- Results in agreement with official procedures
- Low investment cost giving unique performance/ price ratio
- FiberCap capsule design (Patent Pending) ensures optimal mixing with reagents for all sample types
- Controlled reaction conditions ensure accurate analysis and superior precision
- Simple batch-wise defatting of samples
- 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, van Soest and other recognised methods. Batch handling, with no sample transfer, is used throughout the procedure. De-fatting, boiling, rinsing and filtration are performed under reproducible and controlled conditions.

The FiberCap capsule is specifically designed to minimise errors and give reproducible analytical conditions from time to time. The FiberCap 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.

The FiberCap system 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. The low investment cost also makes it preferable to manual standard methods based on filtration and sample transfer procedures, offering substantial savings in manual handling and time as well as improved analytical precision.

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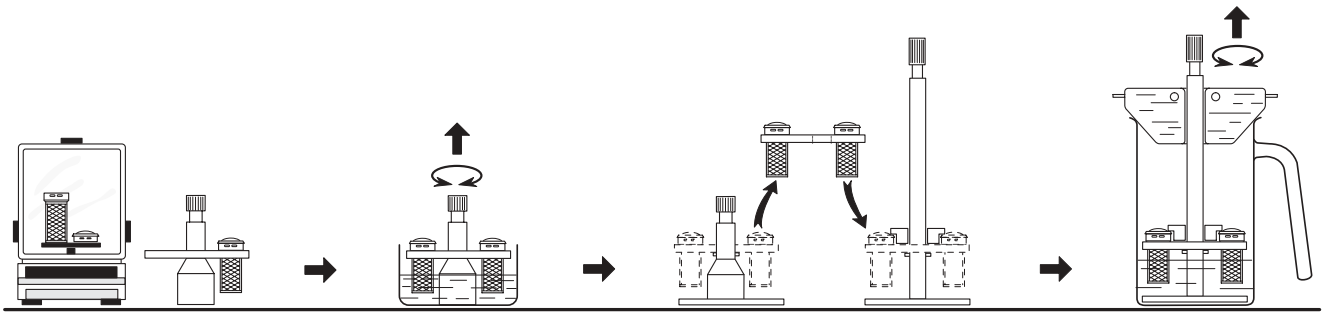

Weighing De-fatting Batch transfer Extraction

Ordering Information:

2021-001	Fibertec™ System 2021 FiberCap (6 position), 230 V, 50 - 60 Hz comprising: Ceramic Hot Plate 2022, Extraction Beakers (2), Boiling Stand, Capsule Trays (3), Drying Stands (2), Defatting Beakers (4), Condenser, Stopper, Condenser Holder and 100 pcs of capsules
2023-001	Fibertec System 2023 FiberCap (18 position), 230 V, 50 - 60 Hz comprising: Ceramic Hot Plate 2022, Extraction Beakers (2), Boiling Stand, Capsule Trays (3), Drying Stands (2), Condenser, Stopper, Condenser Holder and 100 pcs of capsules
2021-003	Fibertec System 2021 + 2023 FiberCap (6 + 18 position), 230 V, 50 - 60 Hz comprising: Ceramic Hot Plate 2022, Extraction Beakers (4), Boiling Stand, Capsule Trays (6), Drying Stands (2), Defatting Beakers (8), Condenser (2), Stopper (2), Condenser Holder and 100 pcs of capsules

Accessories:

15240010	2022 Hot Plate with microprocessor temperature control, spill proof design, ceramic top plate and warning light for temperatures exceeding 70 °C.
10010332	Boiling Stand
10010224	Capsule Tray, 6 position
10010334	Capsule Tray, 18 position
10010137	Extraction Beaker, 6 position
10010546	Extraction Beaker, 18 position
15220049	Defatting Beaker, 6 position
10011595	Defatting Beaker, 18 position
10010516	Condenser, 6 position
10010545	Condenser, 18 position
10010330	Condenser Holder for Hot Plate, 6 position
10011612	Condenser Holder for Hot Plate, 18 position
10010331	Drying Stand
10010347	FiberCap capsules, 100 pcs
10010346	FiberCap capsules, 500 pcs
10010262	Stopper, 6 position
10010335	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.
Reproducibility:	± 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 - 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
- Neutral Detergent Fibre (NDF)
- Acid Detergent Fibre (ADF)
- Acid Detergent Lignin (ADL)

The Fibertec™ 2021 and 2023 System are also suitable for use with almost any chemical.
Materials used are glass, PTFE; PEEK, PP, PET & PA.

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

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In the interest of product development we reserve the right to alter specifications without prior notice.

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