

Fibertec™ 8000

The first fully automated fiber analysis solution following official reference methods



ANALYTICS BEYOND MEASURE

Fibertec™ 8000 is a fully automated system for determination of crude fibre, detergent fibre and related parameters according to standard reference 'crucible' methods such as Weende, van Soest etc.

The lowest operator time of any fibre solution

Unattended measurement of up to six samples releases staff to do other things. On board heating and automatic dispensing of all reagents, antifoam and rinsing with water saves time and prevents the risk of human error.

Official reference method results with unrivalled accuracy

No sample transfer or risk of error as sample residue remains in the crucible throughout the procedure. Discrete analysis of each sample according to official methods ensures reliable reference results, while consistent heating rate and time to boiling ensures repeatability.

Safest fibre analysis solution available

Ensure safety with automatic functions such as dispensing of reagents to prevent contact with chemicals and fumes, heat reduction at boiling point to prevent spillage and addition of enzymes and anti-foam when required.

Sample type

Raw materials and finished products in feed and agriculture

Parameters

Crude Fibre (CF), Neutral Detergent Fibre (NDF), amylase treated Neutral Detergent Fibre (aNDF), Acid Detergent Fibre (ADF), and Acid Detergent Lignin (ADL)

Technology

Fully automated 6 position single or sequential extraction including boiling, rinsing and filtration

Official reference method

ISO 6865 & 92/89 EEC Crude Fbre in feed
ISO 16472 aNDF in animal feed
AOAC 2002.04 aNDF in feed
ISO 13906 ADF and ADL in animal feed

Specifications

Performance data	
Sample size	0.5 - 3 g
Measuring range	0.1% - 100%
Capacity per batch	Up to 6 samples simultaneously
Capacity per day	Up to 36 analyses (Crude Fibre method). Up to 60 analyses using modified procedure
Repeatability	±1 % relative at 5% - 30% fibre level
Reagent preheating time	10 - 12 minutes
Heating-up time from preheated temperature to boiling	5 - 7 minutes

Installation requirements:					
Equipment	Power supply	Power consumption	Dimensions w x d x h cm	Weight	Water supply
Fibertec™ 8000 Hot Extraction Unit	230 V 50/60 Hz	2.000 W	73 x 39 x 64	67 kg	*Tap water minimum 2 l/min (4-25°C, depending on water pressure)
FT 121 Fibertec™ Cold Extraction Unit with water aspirator	-	-	56 x 38 x 28	14 kg	Tap water 2 l/min

Note: Cold Extraction Unit must be placed in the fumehood with at least 0,5 m/sec airflow.

* When Fibertec™ 8000 is in standby mode the tap water supply is closed down.

System description:

Fibertec™ 8000, complete system, 230V, 50/60Hz comprising:

- Fibertec™ 8000, hot extraction unit
- FT 121 Fibertec™, cold extraction unit
- Standard accessory kit,
- Document kit

Fibertec™ 8000 system, 230V, 50/60Hz same as above but without cold extraction unit.

Accessories:

Crucible stand for 6 crucibles, crucible holder, acid tank, alkali tank, NDS tank, ADS tank

Optional accessories:

Crucibles, P0 (porosity 160 - 250 µm), set of 6
 Crucibles, P1 (porosity 100 - 160 µm), set of 6
 Crucibles, P2 standard (porosity 40 - 100 µm), set of 6
 Crucibles, P2 US (porosity 40 - 60 µm), set of 6
 Crucibles, P3 (porosity 16 - 40 µm), set of 6