Crude Fiber Analyzer, 6 Samples, Acid-Alkali Boiling Method, About 100 min Test, 2800 W

Model **MSFBA6SWISS** | Brand **Master Science**





The Crude Fiber Analyzer measures raw (crude) fiber content in grain, feed, food and other agricultural and sideline products by the acid and alkali boiling method. Samples are boiled in acid and alkali of precise concentration under set conditions, soluble substances are removed with ether, and minerals are deducted by high-temperature ashing.

KEY HIGHLIGHTS

- Six Samples Together
- Predictable Timing
- Reliable Repeatability

AT A GLANCE

< 20°C
WATER TEMPERATURE

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Overview

Six samples are processed per run, with a full test taking about 100 minutes: 40 minutes acid, 40 minutes alkali and 20 minutes filtration and washing. The Crude Fiber Analyzer achieves an absolute error of ≤ 0.4% for fiber below 10% and ≤ 4% above 10%.

For NDF, ADF and lignin testing, see our Infrared Fiber Analyzer, an advanced partner to the Crude Fiber Analyzer.

Beaker-based fiber digestion causes the issues below. The Crude Fiber Analyzer handles each one.

Key Benefits

Six Samples Together
Parallel columns process six samples per run.

Standard Method
Acid and alkali boiling follows the classic crude fiber procedure.

Predictable Timing
A full test takes about 100 minutes.

Reliable Repeatability
Absolute error ≤ 0.4% for fiber below 10%.

Technical Specifications

UNDEFINED	
Brand	Master Science
Model Number	MSFBA6SWISS
SKU	MSFBA6SWISS
Measuring Object	Crude fiber in grain, feed, food and agricultural products
Method	Acid and alkali boiling
Samples per Run	6
Reproducibility (< 10% fiber)	Absolute error ≤ 0.4%
Reproducibility (> 10% fiber)	Absolute error ≤ 4%
Measuring Time	About 100 min (acid 40 min, alkali 40 min, filter and wash 20 min)
Water Supply Pressure	> 1.5 MPa
Water Temperature	< 20°C
Power Supply	AC 220 V, 50 Hz
Power	2800 W
Dimensions	670 × 450 × 670 mm
Weight	30 kg

PROBLEMS THE CRUDE FIBER ANALYZER SOLVES	
One sample per beaker setup	Six samples run in parallel.
Inconsistent boiling conditions	Each column follows the same controlled acid and alkali steps.
Slow, scattered filtration	Integrated filtration and washing finish in about 20 minutes.
Poor repeatability	Absolute error ≤ 0.4% for fiber below 10%.

Applications

- **Crude fiber testing in animal feed**
- **Fiber content in grain and cereals**
- **Food fiber analysis**
- **Agricultural product quality control**

Capacity and Timing

- 6 samples per run
- Acid stage 40 min, alkali stage 40 min
- Filtration and washing 20 min

Controls

- Front-panel switches and meters
- Filtrate and recoil control knobs
- Water supply above 1.5 MPa, below 20°C

Method

- Acid and alkali boiling
- Ether removal of soluble substances
- Mineral deduction by high-temperature burning

Standard Accessories Included

- Crude fiber analyzer main unit with 6 glass columns

Optional Accessories

- No optional accessories are listed for this model; contact our team for compatible items.