behr
Labor-Technik

behrotest® devices for the

determination of fibers



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Quality made in Germany



Fibers

Fibers are an important element of human nutrition and are directly connected with the natural components of foodstuff. Basically, the term refers to a group of fundamental food components that enter the stomach and small intestines undigested and reach the colon nearly unaltered. Fibers are comprised of indigestible plant parts and consist mainly of various types of starch-free polysaccharides (NSP) and lignin.

Determination of the fiber content of food

Fibers play an important role in human nutrition. The fiber content is generally determined by means of the classic AOAC 985.29 total crude fiber analysis (the so-called Prosky method) and the AOAC 991.43 total crude fiber analysis (applicable for the determination of total crude fiber content in grain, beans, vegetables and fruits and complies with the German "Official analysis procedure L00.00-18 for the determination of total fiber content" in acc. with § 64 LFGB).

Both methods subject the sample to a series of enzymatic digestions that simulate the actual digestion process that takes place in the human and animal digestive system. They calculated the undigested residues that remain at the end of the analysis.

behrotest® filtration unit EN 6-V

The filtration unit EN 6-V performs the last filtration and rinsing phase required by the enzymatic method for the determination of fibers.

» Practical addition and removal of max. 6 behrotest® crucibles

» Space-saving equipment: perfect sizes for any conventional lab table

» Simple extraction of sample in the designated collection bottle

» Low filtration times: behrotest® Diaphragm vacuum pump, with high chemical resistance, to facilitate work during filtration and rinsing

» Glass funnels facilitate the introduction of digested samples and solvents in the equipment.

Combined with the behrotest® shaking water bath WBMR, the behrotest® EN 6-V reduces the required time in comparison to the manual process considerably.



EN 6-V

Type	Product description	Art.-No.
EN 6-V	behrotest® filtration unit with 6 places	B00720183

behrotest® water bath with magnetic stirrer

The behrotest® water bath made of polypropylene with integrated inductive magnetic stirring plate WBMR is used for the simulation of enzymatic digestions, exactly according to these methods.

With the multiple digestions of sample copies/duplicates at predefined temperatures using various enzymes (a-amylase for gelification, protease to remove proteins, amyloglucosidase to remove starch). Uninterrupted and even sample mixing (shaking) ensures that the samples do not overheat.

WBMR consists of:

» Water bath made of PP
» Heating immersion circulators with LCD display
» inductive magnetic stirring plate with control unit
» behrotest® frame

Type	Product description	Art.-No.
WBMR	behrotest® temperature controlled water bath with magnetic stirrer and lid	B00696814



WBMR

Technical data

Volume in l	20
Temperature setting range	5 °C to 95 °C
Temperature stability	±0.1 °C
Shaking speed	50 rpm up to 600 rpm
Tension	220-240 V – 50/60 Hz
Power	2000 Watt
W x D x H in cm	35 x 60 x 34



SC 4-2



SC 6-2



AFR 2



FT 50

behrotest® filtration unit

Filtration unit for 4 or 6 sample positions.

Complete with:

- Filter crucible
- Filtration advancers
- Seals
- Connection fittings
- Drainage pipe with connecting nozzle for vacuum or water suction pump

behrotest® filtration unit

Type	Product description	Art.-No.
SC 4-2	with 4 positions	B00693906
SC 6-2	with 6 positions	B00688191

AFR 2 - complete extraction unit for SC 4 and SC 6

Complete with:

- Diaphragm vacuum pump
- Suction-flask stand
- 2 ltr. collection bottle
- Tubes

behrotest® extraction unit

Type	Product description	Art.-No..
AFR 2	Complete extraction unit	B00734891

Accessories

Type	Product description	Art.-No..
CFI	behrotest® Cold fingers	B00232939
FT 50	behrotest® glass filter crucibles	B00652415
FV 50	behrotest® adapters for filter crucibles	B00652061

Made in Germany

ISO 9001 BUREAU VERITAS Certification

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