


behr Devices

for standard analysis in animal feed



www.behr-labor.com

Quality made in Germany 

Extraction

Determination of dioxine (PCDD/ PCDF) and dioxine-like PCB contents

- Extraction units for 1 sample place
- In-line extraction devices for 4, 6 or 8 sample places

Determination of crude oil and fat content

1 Classic extraction: Soxhlet

behrlab equipment for Soxhlet extraction comply with the most various requirements of daily laboratory routines.

- Extractor sizes from 30 ml to 5000 ml
- Compact apparatus with one sample position
- Series extraction devices with 4, 6 or 8 sample positions

2 Hot extraction according to Twisselmann

Between 30% - 60% faster than the classic Soxhlet method (depending on sample material).

- Single position, 4 positions, 6 positions and 8 Stellen

3 Hot extraction according to Randall

Up to 40% - 70% faster than the classic Soxhlet method (depending on sample material)

- Single position, 4 positions and 6 positions



1 KEX 100 F-FB



2 R 108 T-FB



3 E 1

Find detailed information in our special leaflet:
behrlab Devices Extraction/distillation

Kjeldahl

Determination of crude protein content

- 1 ■ Standard Kjeldahl block digestors with 8, 12 or 20 sample places for digestion vessels of 250 ml volume
- 2 ■ Micro Kjeldahl block digestors with 16, 24 or 40 sample places for digestion vessels of 100 ml volume
- Kjeldahl block digestors with fully automatic lift with 12 or 20 sample places for 250-ml digestion vessels or with 24 or 40 sample places for 100-ml digestion vessels
- 3 ■ 2-step acid fume extractor (scrubber)
- 4 ■ Steam distillers S 1 – S 5
- 5 ■ Titration stand STI



2 K 40



1 K 12



4 S 4



3 behrosog 3



5 STI

Find detailed information in our special leaflet: Nitrogen/Protein

Kjeldahl

Determination of **volatile nitrogen-containing bases** by distillation

behr S series steam distillers are the optimum addition to the behr Kjeldahl digestion system. The top of the range unit, the behr S 5, is prepared for work with an external titrator, such as TB2.



- 1 ■ Steam distillers S 1 – S 5
- 2 ■ Titration module TB 2

Determination of the content of **volatile nitrogenous bases** by microdiffusion

- Magnetic stirrer
- Conway Diffusion Cells with the lid

- 3 ■ Titration stand STI

Determination of **total phosphorus content**

- Standard Kjeldahl block digestors with 8, 12 or 20 sample places for digestion vessels of 250 ml volume
- Kjeldahl block digestors with fully automatic lift with 12 or 20 sample places for 250-ml digestion vessels
- 4 ■ Infrared quick digestion system with 6 or 12 sample places for digestion vessels of 250 ml volume
- 5 ■ 2-step acid fume extractor (scrubber)

- 1 S 5
- 2 TB 2

Find detailed information in our special leaflet: Nitrogen/Protein



3 STI



4 InKjel 1225 TCP



5 behrosog 3

Distillation/Reflux distillation

Determination of **dithiocarbamate** and **thiuramdisulfide residues**. Spectrophotometric procedure

- Decomposition and distillation devices including flowmeter, mounting and tubing connections



1 D 2

Determination of **dithiocarbamate** and **thiuramdisulfide residues**. Gas-chromatographic procedure

- Heating plate for pre-heating the tin(II)chloride solution

Hydrocyanic acid determination by HPLC

- 1 ■ Steam distillers S 1 – S 5 and D 2

Determination of **amino acids** content (not including tryptophan)

- 2 ■ Reflux distillation mit 250 ml Rundkolben für 1, 4, 6 und 8 Destillationen gleichzeitig



2 RH 254

Determination of **vitamin A** and **vitamin E** (Tocopherole und Tocotrienole) nach Verseifung

The complete apparatus consists of:

- 3 ■ Reaction vessels
 ■ behr high performance glass coolers
 ■ Cooling water distribution strip ensures uniform cooling at sample positions
 ■ Precision heating block with integrated magnetic stirrers
 ■ Separate control unit with very precise temperature control
 ■ Flowmeter for nitrogen
 optionally:
 4 ■ KW 6 cooling trough



3 VAE 6 zusammen
 4 mit KW 6

Hydrolysis/Filtration

Determination of ashes insoluble in hydrochloric acid

- 1 ■ Hydrolysis digestion devices with 4 or 6 sample places
- 2 ■ Filtration unit with 4 or 6 sample places
- behrotest® Muffle Furnance



1 EXR 6

Determination of crude fibre content B-II 7 (87)

Basic Line (manually):

- 1 ■ crude fibre separation apparatus with 4 or 6 sample positions
- 2 ■ filtration unit with 4 or 6 sample positions

Comfort Line (semi-automatic):

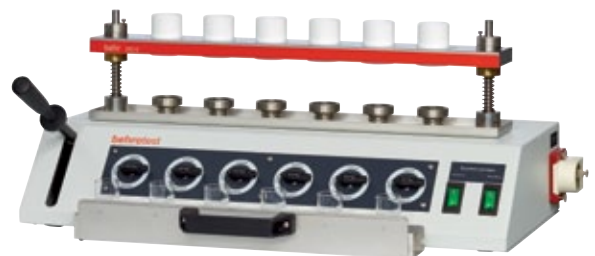
- 3 ■ Semi-automatic crude fiber extraction unit with 4 or 6 sample positions
- 4 ■ Cold extraction unit for degreasing with 4 or 6 sample positions
- 5 ■ behrotest® Muffle Furnance



2 SC 6

Determination of calcium, sodium, phosphorus, magnesium, potassium, iron, zinc, copper, manganese, cobalt, molybdenum, arsenic, lead, and cadmium by ICP-AES

- 5 ■ behrotest® Muffle Furnance
- 6 ■ behrotest® Heating plates
- 7 ■ behrotest® desiccator



4 DG 6



3 CF 6



5 MO 8

Find detailed information in our special leaflet:
 behrotest® Equipment for the Determination of Crude Fibre



6 KP 4



7 EXK 300

Calcimeter

Determination of carbonate content

- 1** ■ Calcimeter according to Scheibler with 1 sample position
- 2** ■ Calcimeter according to Scheibler with 5 sample positions

optionally:

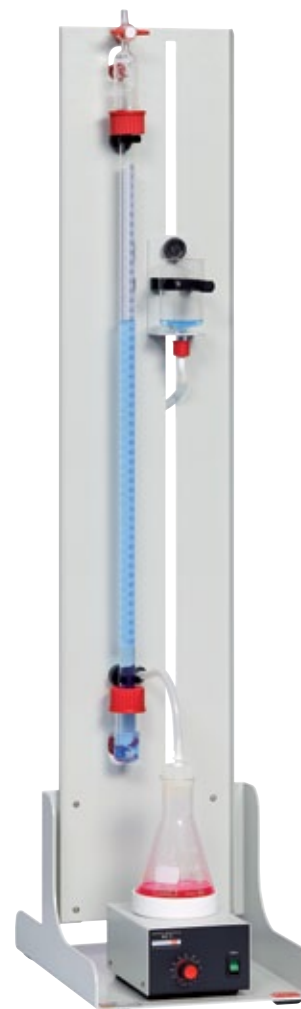
- 3** ■ behrotest® inductive magnetic stirrer



3 IMR 10 E



2 SCM 5



1 SCM 1

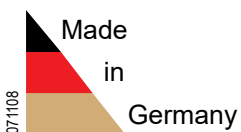
This may also interest you



Detailed information about our products can be found in our special brochures:

- Extraction/Distillation
- Kjeldahl method for determining nitrogen
- Determination of crude fibre

and in our product overview



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Subject to technical modifications, errors excepted.