

Fibertec™ 1023

Rapid dietary fibre analysis



ANALYTICS BEYOND MEASURE

The Fibertec™ 1023 is designed for rapid and rational determination of dietary fibre according to established enzymatic methods, including those approved by AOAC, AACC, NMKL and Asp.

Total, soluble and insoluble dietary fibre

The Fibertec 1023 determines total dietary fibre as well as the insoluble and soluble fibres separately. It is also useful in sample preparation for detailed studies of fibre fractions, e.g. by chromatographic or colorimetric techniques.

Easy sample handling

Save time in the laboratory with batch handling tools. The filtration unit allows rapid filtration of up to 6 samples at a time, while the WB 1024 Water bath allows incubation of up to 12 samples in each batch.

Effective laboratory operations

The Fibertec 1023 ensures effective operations by handling samples in specially designed incubation flasks.

Sample type

Food and food ingredients such as: Cereal products, fruits and vegetables, health food, plant materials

Parameters

Total, soluble and insoluble dietary fibre

Technology

Semi-automated incubation and filtration system for quantitative determination of dietary fibre

Official reference method

AOAC 991.43 and AACC 32-07 TDF AOAC 991.42/43 and AACC 32-07 SDF, IDF AOAC 985.29 and AACC 32-05 TDF, IDF, SDF AOAC 2009.01 TDF Codex Definition method

Specifications

Performance data

Filtration Module

Filtration and dehydration capacity	6 samples/batch
Filtration rate	2-4 minutes/100 ml of digested solution, depending on sample type
Repeatability	S.D. < 0.5% absolute
Flask volume	600 ml
Accuracy	According to official methods

WB 1024 Water bath

Capacity	12 flasks/batch
Temperature range	ambient to 80°C
Temperature accuracy	± 0.1°C
Shaking frequency	0-150 strokes/minute
Stroke length	0-50 mm

Installation requirements

Equipment	Power supply	Power consumption	Dimensions w × d × h cm	Weight
1023 Filtration Module	210-230 V, 50-60 Hz	8	77×28×50	24 kg
WB 1024 Water bath	210-230 V, 50-60 Hz	1.500	89×37×32	24 kg

System description

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- Filtration module complete, comprising: Filtration module, incubation flasks (4 sets of 6), standard crucibles (P2, 2 sets of 6), basket for incubation flasks, 2 stands for crucibles, 2 spray bottles, 2 water aspiration pumps, filter aid, tubing, WB 1024 Water bath, complete, comprising: a tray for 12 incubation flasks and a hinged in-clined lid.
- Filtration module as above but without WB 1024 Water bath

In addition, we recommend:

- Incubation flask (set of 6), at least 4 sets
- Crucible, P2 (40 - 100 µm) set of 6, at least 2 sets
- Basket for 12 incubation flasks, at least 1
- Total dietary fibre kit for 200 determinations

Note – A balance, boiling water bath, drying oven, muffle furnace and Kjeldahl system are also required

Accessories:

Alternative filter crucibles:

Crucible, P0 (160 - 250 µm), set of 6
Crucible, P1 (90 - 150 µm), set of 6
Crucible, P3 (16 - 40 µm), set of 6
Stand for 6 crucibles

Alternative flask trays for other applications, e.g. biochemical work:

Tray for Erlenmeyer flasks, 50 ml
Tray for Erlenmeyer flasks, 100 ml
Tray for Erlenmeyer flasks, 250 ml
Tray for Erlenmeyer flasks, 500 ml

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