

## Specification For Dietary fiber

### Application :

Dietary Fibre Analysis System is a semi-automated incubation and filtration system for quantitative determination of dietary fibre in processed food, cereal products, fruits and vegetables, health food, plant materials etc., using established enzymatic methods, for use in the laboratory for determination of

Total, soluble and insoluble dietary fibre

Free choice of methods like AOAC, AACC, NMKL and Asp.

Determines total, soluble and insoluble dietary fibre.

Rapid filtration of six samples simultaneously.

No need for sample transfer after digestion. The flask used in digestion should fit in filtration.

Specially designed incubation flasks

High incubation and separation capacity.

Repeatable readings, S.D. < 0.5% absolute.

Should consist of:

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, Shaking Water Bath, complete, comprising: a tray for 12 Incubation Flasks and a hinged inclined lid.

### Filtration and dehydration

capacity: 6 samples/batch

Filtration rate: 2-4 ml/100 ml of digested solution, depending on sample type

Repeatability: S.D. < 0.5% absolute

Flask volume: 600 ml

### Shaking Water Bath:

Capacity: 12 flasks/batch

Temperature range: ambient to 80°C

Temperature accuracy:  $\pm 0.1^\circ\text{C}$

Shaking frequency: 0-150 strokes/minute

Stroke length: 0-50 mm

The Shaking Water Bath should incubate 12 samples in each batch.

Temperature range should be from ambient to 80°C .

Should be possible to preset three temperatures.

The shaking frequency and amplitude should be continuously adjustable.

Optionally

Crucible, P0 (160 - 250  $\mu\text{m}$ ), set of 6

Crucible, P1 (90 - 150  $\mu\text{m}$ ), set of 6

Crucible, P3 (16 - 40  $\mu\text{m}$ ), set of 6

Stand for 6 Crucibles

Total Dietary Fibre Kit

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