

## **SPECIFICATION FOR DIETARY FIBRE SYSTEM**

- a) Fibertec System for determination of dietary fibre according to enzymatic methods, AOAC, AACC, NMKL and Asp.
- b) Should be able to determine Total, Soluble and insoluble dietary fibre with the same instrument.
- c) **Should be approved to do following standard test methods**
  - 1) Total Dietary Fibre (TDF) according to AOAC 991.43 and AACC 32-07, AOAC 985.29 and AACC 32-05  
Total Dietary Fibre Enzyme Kit for 200 determinations (100 duplicate estimations) should be provided.
  - 2) Soluble (SDF) and Insoluble (IDF) Dietary Fibre according to AOAC 991.42/43 and AACC 32-07, AOAC 985.29 and AACC 32-05
  - 3) Integrated Total Dietary Fibre (ITDF) Codex Definition method according to AOAC 2009.01\*
- d) Rapid filtration of six samples simultaneously. 2-4 minutes for 100 ml digested solution.
- e) High incubation and separation capacity.
- f) Shaking Water bath to be supplied along with instrument and the temperature range should be from ambient to 80<sup>0</sup> C and it should be possible to preset three temperatures.
- g) Water bath should incubate 12 samples per batch.
- h) The Filtration Module should filter and collect six sample solutions batchwise and include a system for rapid dehydration.
- i) The filtration step should be speeded up through built-in "Pressure-Mode"
- j) The reproducibility (standard deviation) of the Fibertec in determining total, insoluble and soluble dietary fibre should be <0.5% absolute.
- k) **Filtration and dehydration:**
  - i. capacity: 6 samples/batch
  - ii. Filtration rate: 2-4 ml/100 ml of digested solution,
  - iii. depending on sample type
  - iv. Repeatability: S.D. < 0.5% absolute
  - v. Flask volume: 600 ml
- l) Following accessories should be supplied with instrument:  
Filtration Module, Incubation Flasks (4 sets of 6), Standard Crucibles (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 inclined lid.
- M) The supplier must have supplied at least 10 dietary fiber systems in Govt. institutions. List of users with performance reports/installation reports to be enclosed with offer.