Fully Automated Fibre Estimation System



Application: Suitable for faster, safer, and high throughput fibre extraction from food related samples Determination of Fiber content in all type of Feed & food sample, related parameters in plants materials, Cereals & its products, Seeds & Many More through acidic hydrolysis system.

System Description: Model:AI-FIB-6-Six samples Automatic PC Compatible Superior Auto Sequence Fiber Estimation System with auto Time/Temperature Microprocessor Programming Control Hot Extraction Built in Heating Filtration with LCD Digital Display. Sample size: Depends upon the sample less than 0.1 to 4 gms. Heater: high grade ceramic inbuilt infrared heaters with heat reflector SS Splash plate. Heater Control: Automatic Microprocessor program controller.

Sample Loading: Individual non corrosive stainless-steel spring Easy

Mechanical Controls for sample loading.

Features:

- sequential extractions including boiling, rinsing and filtration performed under reproducible & controlled System.
- Temperature Control Range: Room temperature to 450˚C, Temperature Accuracy: ±0.5˚C Microprocessor Based LCD Display System read out for Temperature & Time Measuring range: 0.1 – 100% Reproducibility: ± 1%, Relative at 5% - 30 % fiber level 10 Intelligent user storage program more than 5 Desire Ramp/Sequence steps Heater Control: Automatic Microprocessor Program Controller.
- In Built Pre Heating facility for acid/ alkali with PID control Borosilicate reagent heating flask with Handle.
- Extractor: Marked borosilicate extraction vessel with borosilicate reflux condenser
- Vacuum source – Fibro system with self-priming pump connected to water suction glass filter pump for rapid filtrations.
- Microprocessor Based Specialized Electrical air pump for reclogging Individual valve: Individual Non-Corrosive valves for Draining.
- vacuum pressure, reverse air stream & reagent addition, solvent dehydration of fiber residues. Reagent Addition directly from the top of the extractor
- Control Valve: Individual control valves for vacuum & reverse air stream
- Separate isolated Temperature Controller in a control tower for digestion heat zone and acid reaction zone High grade Silica glass Crucible with P2 (P100) Disc ,40-90 µm Microns for free flow of reagent while operation. Warning sign Adequately displayed in Digital display
- Auto calibration of heating temperature
- Acoustic and Visual Error Indication and Sensor Break.
- Auto heater cut-off facility with indicators to save the power.
- Auto alarm for user's attention.
- Warning sign Adequately displayed in Digital display, Auto calibration of heating temperature, Automatic safety features like over temperature protection, Auto Error Indication and Sensor Break. Auto heater cut-off facility with indicators to save the power, Auto alarm for user's attention Acoustic and indicator lamps showing when the unit reaches the end of final cycle.

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