

Soxhlet Fat estimation system

Description

Make: Pelican Equipments

Model:

Specification:

The Socsplus-SCS08AR fat estimation unit is a fully automated system for fast and safe extraction of soluble fat from a wide range of food and plant matrices. It performs the four extraction steps boiling, rinsing, solvent recovery and auto-shut down.



Working principle

Lipid in food present in various forms like monoglycerides, diglycerides, triglycerides and sterol and free fatty acid and phospholipid and carotenoids and fat-soluble vitamins. Lipid is soluble in organic solvent and insoluble in water, because of this, organic solvents like hexane, petroleum ether have the ability to solubilize fat and fat is extracted from food in combination with the solvent. Later the fat is collected by evaporating the solvent. Almost all the solvent is distilled off and can be reused.

Applications

1. Food Business Units
2. Food Processing Industries
3. Animal Feed Industries
4. Hotels and Food Restaurants
5. Agro Processing Units
6. Small scale Enterprise Plant products samples

User instructions

1. Sample must be drawn from a homogenous mixture.
2. Sample weight should range between 0.5-5g only.
3. Water must be removed from the food prior to extraction, by grinding it with anhydrous sodium sulphate or by heating it in a drying oven at 105 °C.

Contact us

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Charges

	Cost , Rs.	GST, Rs.	Total cost, Rs.
Farmers	525 per sample	95/-	620/-
Students	525 per sample	95/-	620/-
Other national laboratories/ R&D organizations	700 per sample	126/-	826/-
Industries	1500 per sample	270/-	1770/-