# SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT (AUTOMATIC FAT HYDROLYSIS/FAT EXTRACTOR)

## (RESEARCH CENTER, DA-ACEF)

#### 1 Lot Fat Analyzer/Fat Extractor

P 2,500,000.00

#### **Specifications**

- Fully automatic rapid extraction system
- 6 place extraction system upgradable up to 24 placer using one control unit
- Pneumatic control for all moving parts
- With separate plug-in limit temperature controller for additional safety: 135°C, 200°C, 300 °C and programmed maximum temperature
- Extraction stations: 6
- Maximum temperature: 300°C
- Capacity: at least 40 samples per day
- With compatible compressor
- Warranty 1-year on parts, 2-year on services, with every six months preventive maintenance and calibration for two years

## Include the following:

- 1 Licensed Software for Fat Extraction Analysis
- 1 Desktop Computer with at least i5 processor, 8GBR AM, 1TB + SSD
- 1 Circulating Chiller
  - Temperature range: 0 to +30C
  - Microprocessor PID controller
  - · Circulating pump: 20L/min
  - Pump pressure: 14psi or equivalent
  - Reservoir: 10 L
  - · Refrigerant: CFC free
- 1 Analytical balance
  - Capacity: 220g
  - Readability: 0.1mg
  - Repeatability: 0.1mg
  - Linearity: 0.2mg
  - · Pan size: 90mm diameter
  - Display: touch screen with graphical display
  - Interphase: mini USB
  - Power: auto volt
- 1 Fume hood
  - External Size Approx.(W\*D\*H) 1800\*840\*2150mm
  - Internal Size Approx. (W\*D\*H) 1680\*730\*745mm
  - Max Opening 520mm
  - Work Surface Height 750mm
  - · Blower Built-in centrifugal blowers; Speed adjustable with 9 levels
  - Air Velocity 0.3~0.8m/s

- Noise ≤68dB
- LED Lamp 16W\*1
- UV Lamp Emission of 253.7 nanometers for most efficient decontamination
- Front Window Motorized;5 mm toughened glass, anti-UV
- Material Exterior Body: Cold-rolled steel with anti-bacteria powder coating.
- Work table: Chemical resistant phenolic resin
- Waterproof Socket 2 pcs
- Power Supply AC220V±10%, 50/60Hz; 110V±10%, 60Hz
- Consumption 500W
- Stand Accessory Water tap; Gas tap; Water sink; Base stand, UV lamp\*2, LED lamp, Socket, 4 meters exhaust duct, Active carbon filter, Foot switch

Prepared by:

AGNES B. ALIMBOYOGUEN

End-user

Evaluated & Approved by:

RENE/B. BETONIO

Member, TWG- Supplies & Lab Equipment

ORLANDO B. DELOS REYES, MEng Chair, TWG- Supplies & Lab Equipment

# SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT (AUTOMATIC PROTEIN ANALYZER)

# (RESEARCH CENTER, DA-ACEF)

## **Protein Analyzer**

P 2,500,000.00

# **Specifications**

## Digestion System with Automatic Lift

- Aluminum/stainless steel digestion block with all round insulation
- Control accuracy: ±5 %
- At least 90 programs with at least 30 heating stages
- · Acid resistant surface
- · Illuminated digestion chamber
- Programmable/automatic lift function
- Volume: at least 8 place, at least 250 ml, with tubes
- Maximum temperature: 430°C

#### Including Standard Supplies:

 Catalyst, antifoam tablets, and scrubber (centrifugal suction washer, dip tray, tubing set, complete glass parts)

#### Distillation System with Automatic Titration

- · Programmable, automatic addition of NAOH, water, and Boric Acid
- · Programmable/distillation and reaction time
- Programmable/steam power, 10-100%
- · Programmable suction of sample residue
- · Data logging, storage and retrieval
- Automatic endpoint titration
- Display of titration solution consumption
- · Display of pH value
- Recovery: at least 99%
- Reproducibility: ±1%

#### Include the following:

- · Tank with level sensor
- · Kjeldahl tubes, 250ml, equivalent to the no of place
- AVR (appropriate power rating of the equipment)

<sup>\*\*\*</sup> Warranty 1-year on parts, 2-year on services, with every six months certified preventive maintenance and calibration for two years.

\*\*\* TRAINING ON OPERATION AND BASIC PREVENTIVE MAINTENANCE UPON INSTALLATION FOR AT LEAST 3 TECHNICAL PERSONNEL.

Delivery Period: 60 days

Prepared by:

AGNES B. ALIMBOYOGUEN

End-user

Evaluated & Approved by:

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