



BIHIS-MAALA BASICS
"DELIVERING GLOBAL QUALITY STANDARDS"

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FOOD, FLOUR AND FEEDS CATALOGUE

NITROGEN/PROTEIN ANALYZER



Nitrogen/Protein Analyzer
CN828

Dumas/Combustion Method, alternative to Kjeldahl

Features and Benefits

- **Sample Size:** up to 1 gram
- **Fast Analysis Time:** 2.8 mins per analysis
- **Automation:** 30 sample autoloader (option of 60,90,120)
- **User Friendly:** Weigh sample > place in CN828 > after 2.8 mins, you get Nitrogen/Protein Content
- **Safety:** No solvents and fumes
- **Low cost-per-analysis:** Extended carrier gas and filter usage
- **Carrier gas:** Can use Helium or Argon w/o hardware change
- No digestion, distillation and titration!

Models :

- Nitrogen Only : FP828
- Nitrogen and Carbon : CN828



Nitrogen, Carbon and Sulfur Analyzer
CNS928

Dumas/Combustion Method, alternative to Kjeldahl

Features and Benefits

- **Sample Size:** up to 3 grams
- **Fast Analysis Time:** 5 mins per analysis
- **Automation:** 100 sample autoloader
- **User Friendly:** Weigh sample > place in CN828 > after 5 mins, you get the CNS Content
- **Safety:** No solvents, fumes, digestion,
- **Low cost-per-analysis:** Extended carrier gas and filter usage
- **Carrier gas:** Can use Helium or Argon w/o hardware change
- No digestion, distillation and titration!

Models :

- Nitrogen Only : FP928
- Nitrogen and Carbon : CN928
- Nitrogen, Carbon and Sulfur : CNS928

FOOD TEXTURE ANALYSIS



Food Texture Analyzer
MultiTest I

Used for physical testing of food samples : compression, bulk, extrusion, puncture, shear, snap, bend and break tests

Simulate physical sensory tests consistently, quantitatively and accurately : hardness, crispyness, chewiness, slicability, viscosity, stickyness, brittleness, bite, and more

Sample applications :

Dough Firmness
Dough Stickiness

Bread softness/Shelf Life



MOISTURE AND ASH ANALYSIS



Moisture and Ash Analyzer
TGA801

Automated analysis of moisture and ash by thermogravimetric Method :

- **Step 1 :** Place samples inside the ceramic crucibles (up to 19 samples, 1-2 grams each)
- **Step 2 :** Press run and the TGA801 will do the rest
 - heat to moisture temp and record at weight constancy
 - heat to ash temp and record at weight constancy
 - cool down

Alternative to Oven and Furnace Method

Features and Benefits

- **Automated:** lets you perform others tasks
- **Reduces error due to the following :**
 - human error due to wrong recording/encoding of data
 - reintroduction of moisture during transfer to and from the desiccator, oven, furnace and analytical balance
- **Safety:** No analyst exposure to high temperatures
- **Programmable**

Applications :

- Moisture (TGM800)
- Moisture, volatiles, ash, FC, total solids, LOI



Moisture Analyzer
TGM800

PARTICLE SIZE AND SHAPE



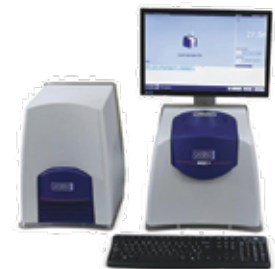
Particle Size and Shape Analyzer
Sync

Applications :

- Particle Size Analysis/Particle Size Distribution
- Particle Shape Analysis : Sphericity, L/W ratio, diameter ellipse ratio, concavity, curvature and more

Performs size and shape analysis simultaneously

SOLID FAT CONTENT TOTAL OIL/FAT



SFC and Total Fat Analyzer
MQC+ NMR

Applications :

- Solid Fat Content in baking, confectionary and margarine
- Total Fat/Oil Content

Features and Benefits

- Analysis is just seconds
- No consumables!
- Easy calibration with just a few samples
- No solvents or fumes

Alternative to soxhlet method



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OTHER PRODUCTS



**GC-MS
PEGASUS BT**

Uses a Time-Of-Flight Mass Spectrometer as a detector

Its StayClean ion source eliminates the need for source cleaning

Helps you quantify at SIM levels while attaining full scan mass spectra

Other model : GCxGC-TOFMS which uses 2 different gc columns that improves all areas of the analysis



**HPLC
S 500**

The S 500 is a routine HPLC system intended for all routine analysis. The system configuration is highly variable and with several upgrade options.



**Automatic Amino Acid Analyzer
S 433**

The S 433 combines the advantages of ion exchange separation method w/ HPLC technique.

With prepacked separation columns, ready to use buffers and chemicals, the S 433 is- the best solution to amino acid analysis



**Atomic Absorption Spectrometer
AA500**

Available configurations : flame atomiser only, graphite furnace only and flame atomiser and graphite furnace



**Inductively Coupled Plasma (ICP) - OES
ICP5000 DV**

Its Dual View system offers ultra low level analysis by axial and radial view analysis at the same time allowing fast and precise analysis of complex matrices



**Flame Photometer (Li,Na,K,Ca,Ba)
BWB XP**

Lithium, Sodium, Potassium, Calcium and Barium Analysis

Modern flame photometer that simultaneously displays and detects the 5 elements, has a built in air compressor, has the ability to store calibration data and perform multi point calibrations

Ovens

Natural air convection oven
Forced/fan air convection oven
Atmosphere controlled oven

Furnaces

Ashing Furnace
Furnace with integrated balance

Environmental Chambers

Controlled Temperature, Humidity and Lighting

Microwave Digestion Systems

Models : 6 , 12 and 168 sample capacity
Uses either Quartz or PFA teflon vessels for digestions

Crucibles and Lids

Platinum crucibles and crucibles made of other material

Flash Point Tester

Sieves

Universal Testing Machines

Physical testing of packaging materials

Standards and Supplies

CHNS Certified Reference Materials
AAS, ICP and Flame Photometer Standards
SFC Standards
Weight loss standards

Gases

Mixed gases
Ultra High Purity gases
Calibration gases