

# FORTIFY YOUR LAB

AUTOMATED WET CHEMISTRY

THE STANDARD  
FOR  
QUALITY  
CONTROL,  
NUTRITIONAL  
LABELING &  
RESEARCH

**ANKOM**  
TECHNOLOGY

Nutrition Facts	
8 servings per container	
<b>Serving size</b>	2/3 cup (55g)
Amount per serving	
<b>Calories</b>	<b>230</b>
	<small>% Daily Value*</small>
<b>Total Fat</b> 8g	16%
Saturated Fat 1g	2%
Trans Fat 0g	0%
<b>Cholesterol</b> 0mg	0%
<b>Sodium</b> 160mg	32%
<b>Total Carbohydrate</b> 37g	74%
Dietary Fiber 4g	8%
Total Sugars 12g	24%
Includes 10g Added Sugars	20%
<b>Protein</b> 3g	6%
Vitamin D 2mcg	4%
<b>Calcium</b> 260mg	52%
Iron 8mg	16%
Potassium 240	48%

# BREAKTHROUGH VITAMIN ANALYSIS

AUTOMATED SAPONIFICATION  
TO ISOLATION



Simplifies fat-soluble vitamin, cholesterol, crude and total fat extraction

Eliminates chemical handling to improve safety

Provides ability to create custom methods

Eliminates bi-phase extractions

Reduces solvent usage to 50-100ml/assay

The ANKOM<sup>FLEX</sup> Analyte Extractor's innovative design and automated technology supports multiple samples at a time and completes saponification, solid phase extraction (SPE) and evaporation in about two to three hours. An inert nitrogen environment protects sensitive analytes from oxidation. Features include the ability to modify pre-defined methods or create custom user-defined methods to support research and development.

## METHODS



Runs pre-programmed and custom methods

## DIAGNOSTICS



Includes monitoring, calibration, and troubleshooting of the system

## RECORDS & UPDATES



Contains records of assays, faults, calibrations, and services

**ANKOM**<sup>FLEX</sup>  
ANALYTE EXTRACTOR

# FULLY AUTOMATED PROCESS

The ANKOM<sup>FLEX</sup> Analyte Extractor is validated for foods from all nine sectors of the AOAC food-matrix triangle.



Up to 10g samples (liquid or solid) are weighed directly into digestion vessels before starting the run. Transfers, extraction and evaporation of solvent occurs automatically. Limited technician contact minimizes error and increases precision.



## Digestion

- Automates all aspects of saponification
- User customizes parameters
- Maintains inert nitrogen environment

## Solid phase extraction

- Low cost consumables
- No unwanted emulsions
- No bi-phase glassware

## Evaporation

- Fast and efficient solvent evaporation
- Sensitive analytes are protected
- Isolated analyte is ready for quantitation

## STATE-OF-THE-ART SOFTWARE



The ANKOM<sup>FLEX</sup> Analyte Extractor has touch screen functionality and a user-friendly interface powered by state-of-the-art software. Digestion time, temperature, and pressure is monitored and controlled at all times. The user has a complete history of their research and instrument performance, which can be exported to other platforms.

# DIETARY FIBER ANALYSIS NUTRITIONAL LABELING



THE STANDARD FOR QC, RESEARCH & LABELING



## ANKOM<sup>TDF</sup> DIETARY FIBER ANALYZER

Automates: AOAC 985.29, 991.43, 2001.03,  
2009.01, 2011.25 & 2017.16

Reduces labor and cost per assay

Fast and technician-free filtration

The ANKOM<sup>TDF</sup> Dietary Fiber Analyzer automates tedious analytical methods, reduces per sample costs and increases accuracy. An advanced highly accurate multi-channel pump automates adding chemical solutions, enzymes, and rinses, eliminates multiple water baths, and frees up counter space. Temperature and agitation levels are controlled throughout the process. Specially designed dual chamber filter bags greatly improve filtration by reducing filtration time to seconds. Filtration is totally automatic and eliminates costly glassware. The system allows the user to perform stand-alone IDF, SDF, and TDF analyses and gives the ability to capture the filtrate for subsequent HPLC analysis.



### IDF

Automatic enzymatic digestion  
Technician-free filtration

### SDF/TDF

Automatic precipitation  
Technician-free filtration

Filtrate available for HPLC

# ADF, aNDF & CRUDE FIBER DETERMINATIONS



## FULLY AUTOMATED WITH PUMP SYSTEM

AOCS Ba 6a-05

Internal pump automatically draws solutions, greatly reducing chemical handling

Multiple chemical connections allow seamless and automatic transition between methods

Batch process of up to 24 samples

Computer control assures method compliance and eliminates technician variability

Easy access maintenance side panel and window simplifies maintenance to ensure trouble-free operation

The ANKOM<sup>DELTA</sup> Fiber Analyzer automates acid detergent (ADF), neutral detergent (aNDF) and crude fiber determinations at the highest level with accurate and precise results. Specialized software provides technician free control, assuring method compliance and guaranteeing proper delivery of required solutions and rinses. Technicians can adjust parameters and settings to meet their unique needs. Direct connection to hot water supply automatically clears lines and valves to allow for quick transition between methods, no manual intervention needed.



**ANKOM<sup>DELTA</sup>**  
FIBER ANALYZER

### IMPROVED CHEMICAL DELIVERY

The ANKOM<sup>DELTA</sup> Fiber Analyzer includes an internal pump system for automated delivery from any chemical container within range of the instrument and eliminates lifting heavy chemical containers. Five solution port connections make a seamless transition between Crude Fiber, ADF, and NDF methods without changing out chemicals.

An optional chemical delivery system can be customized based on volume needs to further reduce costs and simplify labor for dry chemical bulk mixing.



FILTER BAG TECHNOLOGY

## POWERED BY FILTER BAG TECHNOLOGY

ANKOM Technology is the developer of Filter Bag Technology (FBT). Samples are completely encapsulated which ensures ease of handling and virtually eliminates error. With Filter Bag Technology, productivity soars as samples are batch processed in automated systems. Our expertise in filtration media led to advancements in solid phase extraction.

Increased precision - High throughput - Batch Processing

**ANKOM<sup>RF</sup>**  
GAS PRODUCTION SYSTEM

### WIRELESS GAS PRODUCTION MEASUREMENT

The ANKOM<sup>RF</sup> Gas Production System provides an easy to use method for monitoring and measuring gas production. The system includes five gas production modules (RF1) with rechargeable batteries and sample bottles, a remote zero, system software, base coordinator with USB cable, ten station battery charger and a valve cleaning kit. Bottle size choice available.

**ANKOM<sup>XT15</sup>**  
EXTRACTOR

### AUTOMATED SOXHLET

The ANKOM<sup>XT15</sup> Extractor provides an official method for efficient and economical solvent extraction.



AOCS Am 5-04

Solvent per sample < 1.0ml

Solvent recovery rate: 97%

Up to 150 extractions per day

No ventilation hood required



*Helping To Feed The World!*

ANKOM Technology is the developer of Filter Bag Technology (FBT) used around the world for fiber and fat analysis. With customers in over 140 countries, ANKOM has a reputation for quality and innovation. Constantly seeking to develop better methods for time consuming analytical methods, ANKOM Technology focuses on customers needs. We offer instruments, chemicals and other ancillary products to determine fat soluble vitamins, cholesterol, dietary fiber, crude and detergent fiber, crude and total fat, in vitro and in situ research and more. We work hard to keep costs low with quality and service high.

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