

PROTEIN TESTING

Enters the 21st Century

Bioscience Meets Food Science
Experience the difference of iTAG™ Technology

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SYSTEM SPECIFICATIONS

Protein Range	0.01% to 99.99% in liquids, solids and slurries 0.01% resolution
Data Entry	Keypad with menu-driven software
Display	Color VGA screen (800 x 640)
Accessory ports	2 serial, RS 232, 9 pin ports for external balance or computer, and 4 USB ports
Standard Printer	Internal impact printer

INSTRUMENT DIMENSIONS:

Analyzer	15.5 in (w) x 17 in (d) x 16.5 in (h) 39.4 cm (w) x 43 cm (d) x 42 cm (h)
Reagent holder	13.5 in (w) x 5.5 in (d) x 2.7 in (h) 35 cm (w) x 14 cm (d) x 7 cm (h)

WEIGHT:

Analyzer	22 lbs (10 kg)
Reagent holder	2.5 lbs (1.1 kg)
Bar Code Reader	Serial, RS 232

CEM CORPORATION IS A LEADING GLOBAL PROVIDER OF INNOVATIVE SOLUTIONS FOR CRITICAL LABORATORY APPLICATIONS IN THE FOOD, CHEMICAL, PHARMACEUTICAL, AND BIOSCIENCE INDUSTRIES.



SPRINT RAPID PROTEIN ANALYZER
Revolutionary technology for the rapid,
safe, and direct determination of protein.

CEM

Tomorrow's Science Today

Protein TESTING Enters the 21st Century

BIOSCIENCE MEETS FOOD SCIENCE with CEM's new Sprint™ Rapid Protein Analyzer with iTAG™ Technology. Protein tagging has been a proven technique utilized in bioscience applications for years. Now, CEM brings this innovation to the food industry. Sprint is a unique analyzer that uses protein tagging to accurately identify and measure protein. Current methods measure nitrogen and calculate the protein. Sprint utilizes an automated protein-tagging technology that attaches to the protein itself for an accurate, direct measurement, so you can be certain your results are not affected by naturally occurring nitrogen, fillers or contaminants.

- Measures only protein, not nitrogen
- Ensure the protein content of ingredients
- Fast analysis of all types of food
- No hazardous chemicals
- Safer than Kjeldahl with better results
- Method approved by AOAC and AACC



Sprint with iTAG does not detect all nitrogen in a sample it is only sensitive to nitrogen-containing amino groups found in proteins.

DON'T BE FOOLED BY FILLERS

Sprint's iTAG technology only tags the amino groups found in proteins. Fillers found in some ingredients such as wheat gluten can cause errors. Kjeldahl and Dumas cannot differentiate between nitrogen coming from proteins and nitrogen present in other components.

NO METHOD DEVELOPMENT

Sprint comes pre-programmed with a broad selection of methods ready for use in your laboratory. With its truly innovative software, loading a method and analyzing samples on your Sprint is no more complicated than finding a number and calling a friend on your cell phone. Sprint stores hundreds of methods and has a large amount of memory for results, as well.

CLEAN UP IS EASY

Current protein analysis instrumentation requires frequent maintenance and cleaning. Sprint uses disposable sample cups and filters, which contain the sample completely. Prior to the next analysis, Sprint automatically cleans all internal components. At the end of a protein test, all non-toxic sample waste and the disposable filter and cup are removed and discarded.



* Patents Pending