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Flexible and Reliable Plasma Protein Testing

BN II System

The Versatile System for Confident Plasma Protein Results

As a global market leader with more than 50 years of experience in dedicated plasma protein testing, Siemens Healthcare offers a total solution for your plasma protein testing needs. With the industry's largest menu of plasma protein assays and a scalable offering of dedicated nephelometric testing systems, Siemens plasma protein products deliver accurate results and a complete picture for confident clinical decision making.

The BN™ II System is an easy-to-use, reliable nephelometric analyzer that offers the broadest range of plasma protein assays. With assays available across multiple sample types, you can conveniently assess numerous disease states such as gammopathies, kidney diseases, neurology, and chronic alcohol abuse—on just one system. Connectivity options to Aptio® Automation and FlexLab Automation solutions enable laboratories to integrate and optimize their plasma protein testing workflow.

Well-established in the market, the BN II System is valued for its:

- Comprehensive menu from one source: more than 65 assay protocols available for determination of various sample types
- Extended onboard reagent stability, with continuous loading of reagents and consumables for uninterrupted workflow
- Flexible, automated sample processing, including applications for serum, plasma, urine and CSF samples, STAT samples, and low-volume samples in conical micro-tubes
- Effective sample throughput of approximately 130 tests per hour*
- Antigen-excess security for confidence in results



*Depending on assay profile.

“We prefer the BN II to our previous nephelometer from another supplier for a number of reasons, especially the ability to reload samples continuously.”

The BN II is also much easier to use and therefore much easier to train new users.”

Gemma Brahams, Senior BMS
at Royal Surrey County Hospital, UK

Confidence in plasma protein results

The BN II System is designed to meet the needs of the high-volume plasma protein lab.

- Fully automated assay processing: from reading of sample tube bar codes to reporting of results
- Average throughput of about 130 tests per hour, depending on the assay mix, and its high onboard capacity of up to 100 samples and 35 reagents provides a walkaway time of more than 2 hours
- Wide measuring ranges for fewer repeats and user-friendly software for easy operation
- Bidirectional host interface for convenient transfer of assay requests and results to the laboratory information system (LIS)
- Innovative markers including monoclonal kappa and lambda free light chains (FLC), cystatin C, beta-trace protein (BTP), and carbohydrate-deficient transferrin (CDT)
- The first dedicated protein analyzer that can be connected to lab automation



Flexible, efficient operation

Siemens designed the BN II System for flexible, efficient operation in high-volume labs. The system allows continuous loading and reloading of samples and/or reagents without interrupting the system's current workload. Random-access processing eliminates sample batching.



Accurate, consistent results

The BN II System provides reliable results when analyzing samples with extremely high analytical concentrations. Optimized reaction conditions and assay-specific, automated pre-reaction protocols ensure valid results without operator intervention (Figure 1).

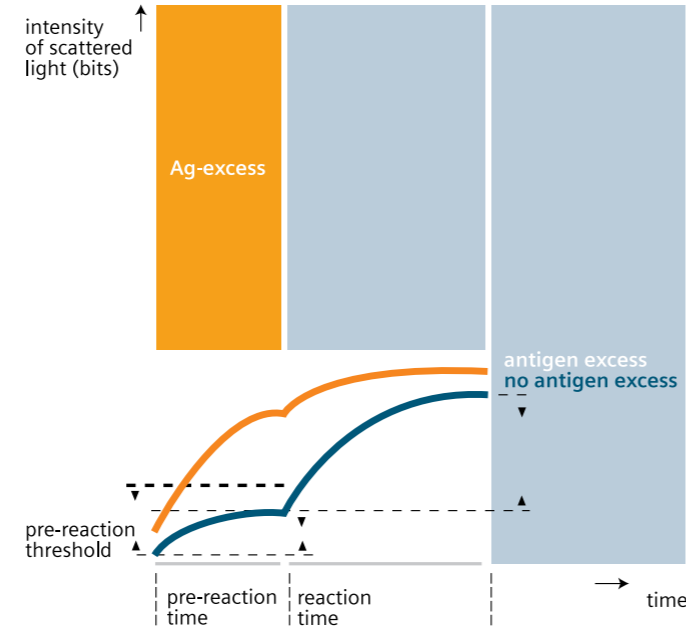


Figure 1. Antigen excess reliability by pre-reaction.

Low-volume sample handling

The system accommodates standard sample tubes as well as micro cups for low-volume samples, such as samples from pediatric patients. Sample racks that hold tubes or conical micro tubes are available.



Proven reliability

Through many years of use in labs around the world, the BN II System has been proven to be very reliable. With only a few nonroutine service visits per year (one visit every 3 to 4 months, on average), you can count on the BN II System to be available for plasma protein determinations whenever required.

Broad menu for confident clinical decisions

With the broadest menu available on a reliable, dedicated plasma protein system, the BN II System enables confident clinical decisions.

Allergic Diseases	Kidney Disease (continued)
IgE	FLC kappa urine
Anemia/Iron Metabolism	FLC lambda urine
Ferritin	IgG urine
Haptoglobin	Ig/light chain, type kappa urine
Hemopexin	Ig/light chain, type lambda urine
sTfR	NGAL
Transferrin	Transferrin urine
Autoimmune/Rheumatoid Diseases	Neurology
ADNase B	Albumin
ASL	Albumin CSF
CRP	IgG
RF	IgG CSF
C3c	IgA
C4	IgA CSF
Cardiovascular Risk/Acute Cardiac Care	IgM
High Sensitivity CRP	IgM CSF
Fibrinogen	Beta-trace Protein (BTP)
Apo A-I	FLC kappa CSF
Apo B	FLC lambda CSF
Homocysteine	Nutritional Assessment
Lp(a)	Albumin
Myoglobin	Prealbumin
Albumin urine	RBP
Cystatin C	CRP
Chronic Alcohol Abuse	Ferritin
CDT	Polyclonal and Monoclonal Gammopathies/Immune System
Transferrin (for %CDT calculation)	IgG
Coagulation Disorders	IgG subclasses 1–4
AT-III	IgA
Fibrinogen	IgM
Plasminogen	Ig/light chain, type kappa
Complement Activity	Ig/light chain, type lambda
C1 Esterase Inhibitor	FLC kappa
C3c	FLC lambda
C4	β 2-Microglobulin
Inflammation	Other Specialty Analytes
α 1-Acid glycoprotein	α 1-Antitrypsin
CRP	α 2-Macroglobulin
Fibrinogen	Apo A-II
SAA	Apo E
Kidney Disease	Ceruloplasmin
Albumin urine	Fibronectin
α 1-Microglobulin urine	
α 2-Macroglobulin urine	
β 2-Microglobulin urine	
Beta-trace Protein (BTP)	
Cystatin C	

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Improved workflow efficiency through automation

The BN II System is the first dedicated protein analyzer that can be connected to lab automation. It uses an interface module that transfers sample tubes from the track into the BN II racks and pushes the racks onboard the analyzer. After samples have been diluted, the rack is immediately released and sample tubes are transferred back onto the track.

Even when automatic sample loading is employed, manual loading is still possible. Specialty samples using micro cups or control vials can be placed on the system at any time without interfering with the operation of the interface module.

The BN II System can be connected to Aptio® Automation and FlexLab Automation solutions. It supports the streamlining of workflow with:

- Reduced manual interaction
- Extended walkaway capability
- Continuous access to reagents and consumables
- Manual loading of specialty samples

Enhanced result reporting with PROTIS System

PROTIS® Assessment Software assists with interpretation support for a wide range of clinical indications, including CSF assessment, renal diseases, cardiac risk assessment, nutritional status, and iron and anemia assessment.

PROTIS System data-management software manages online data transfer between the BN II System and LIS.

Patient reports provide consolidated results from multiple analyzers into one report:

- All data at a glance
- Graphical presentation of results
- Calculation of specific algorithms
- Result interpretation suggestions modifiable by the user

Flexible, reliable plasma protein testing from a market leader

For more than 50 years, Siemens has been a trusted global leader in dedicated protein testing. With its broad menu; consistent, accurate results; fully automated processing; flexible sample handling; connection to Aptio® Automation and FlexLab Automation solutions and proven reliability; the BN II System demonstrates Siemens' continuous and ongoing commitment to delivering solutions for the high-volume plasma protein lab.

Continuous launches of innovative markers and advances in laboratory automation and post-analytical information technology, such as PROTIS Assessment Software, demonstrate Siemens' commitment to providing meaningful new solutions for your plasma protein testing needs.

Siemens plasma protein products deliver accurate results and provide a complete disease-state picture for better clinical outcomes. With the broadest range of assays across multiple sample types on easy-to-use and reliable nephelometric BN™ Systems, Siemens solutions deliver diagnostic performance for confident decision making.

To learn more about Siemens solutions and services for plasma protein testing, please contact your local Siemens representative today or visit siemens.com/plasmaprotein.

