



## Our Experience – Your Convenience

**BN ProSpec® System**

Answers for life.

**SIEMENS**

# Continuing the tradition of setting standards in the field of plasma protein diagnostics

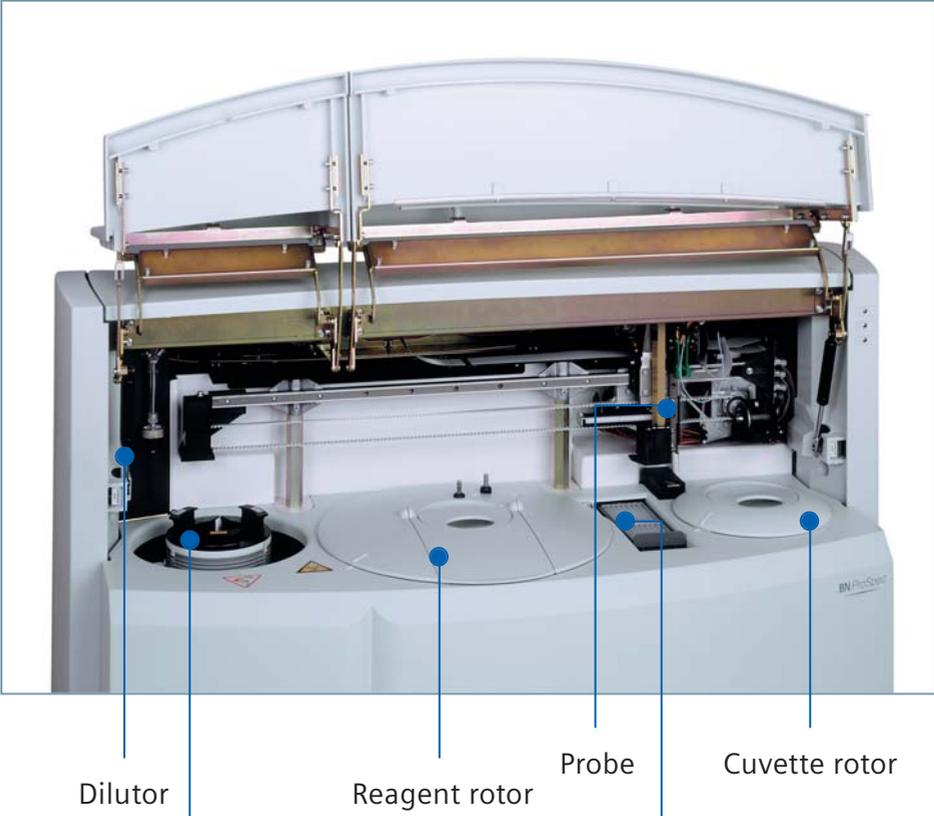
## The gold standard in plasma protein analysis

More than 50 years experience in plasma proteins has resulted in four generations of dedicated nephelometric systems, each bringing new advances to laboratories.

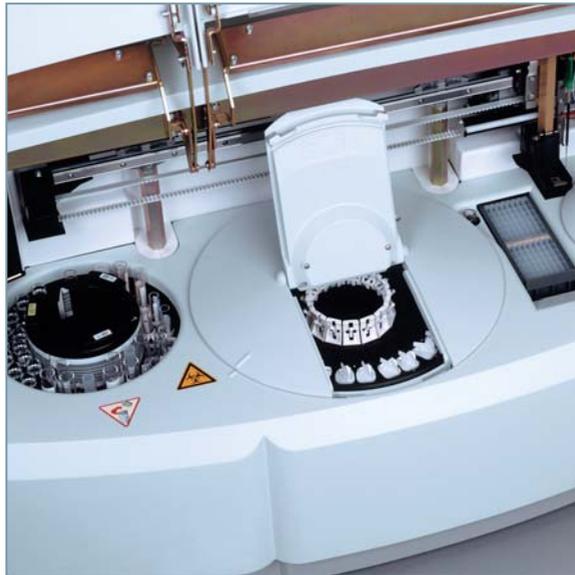
Our continuous focus on new and valuable assays has resulted in innovations such as the first direct, fully automated CDT method – an economical test to identify chronic alcohol abuse. Advances in laboratory automation and postanalytic information technology, such as the Protis® software, further highlight our commitment to provide meaningful new solutions for your plasma protein testing needs and beyond.

Protein quantitation has many applications across a range of disease states. The technology employed must meet increasingly higher standards driven by the need to determine proteins accurately in wide concentration ranges and across various body fluids.

Siemens Healthcare Diagnostics is also engaged in the international standardization of plasma proteins and in the development of new, innovative assays.



Dilutor  
Sample rotor  
Reagent rotor  
Probe  
Dilution area  
Cuvette rotor



### Uncompromising performance for your laboratory

The BN ProSpec system is a fully automated diagnostic instrument which fulfills today's demands on laboratory needs and financial constraints.

- Effective workflow due to state-of-the-art technology
- Increased economy by optimization of work processes
- Highly reliable patient results because of optimization of different test components
- Easy handling of innovative assays such as
  - *CardioPhase™ hsCRP* – the trendsetting assay acknowledged as independent marker of cardiovascular risk
  - Cystatin C – a more sensitive marker for the glomerular filtration rate
  - Carbohydrate-deficient Transferrin (CDT) – an economical test to identify chronic alcohol abuse
- Powerful combination with Protis result interpretation software (optional)
- Fully IVDD compliant (CE-Mark)

# Sample rotor – easy, reliable, fast, flexible



## Continuous access

- Up to 45 sample tubes on board at one time
- Patient oriented sample processing without interruption of the assay run
- STAT capability
- Fast turnaround time and completed results on demand

## Flexible sample processing

- Processing of different specimen types: serum, plasma, urine and CSF from one sample segment
- Combination of various sizes of primary or secondary tubes on one segment
- Integrated barcode scanning to avoid mixing-up of samples

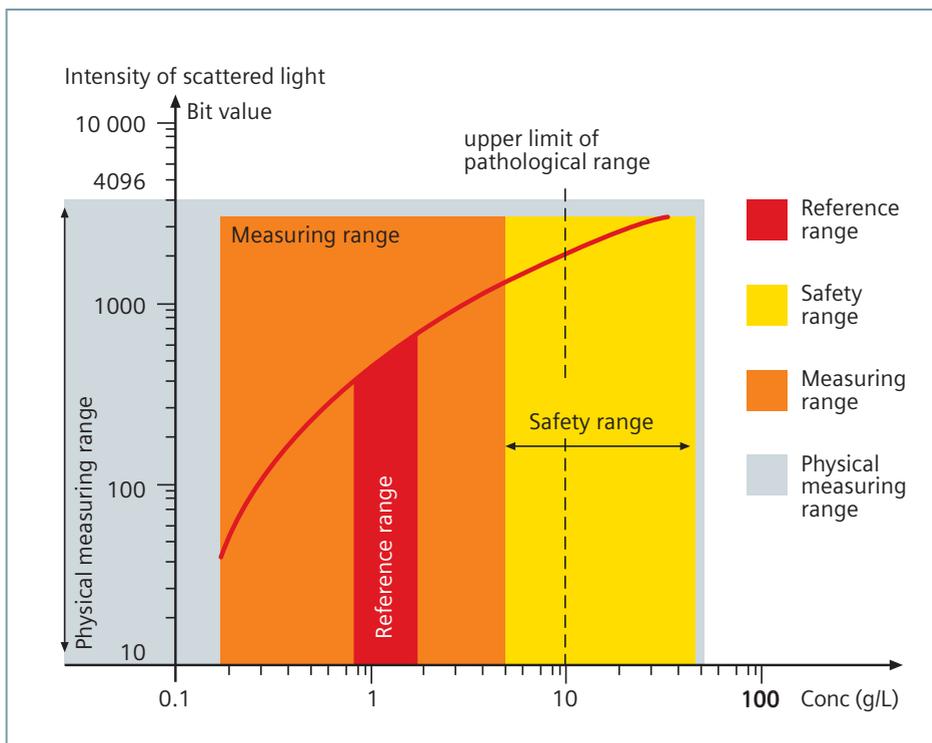
- Suited for low volume samples
- Different adaptors for different secondary vessels, e.g. Eppendorf cups
- Optimal use and combination with clinical chemistry systems
- Use of e.g. Dimension® sample containers as cup-in-tube

### Easy calibration procedures

- Possibility of calibrating various assays in parallel using barcoded multi-parameter standards
- No interruption of the routine run
- No transfer and therefore no mixing-up of standards by pipetting directly out of the vial

### Reliable results

- Antigen excess security ensured by optimized reaction conditions
- Enhanced reliability due to pre-reaction protocols or VLIN-Integral evaluation mode (assay specific)



(Basic principle of the BN systems)

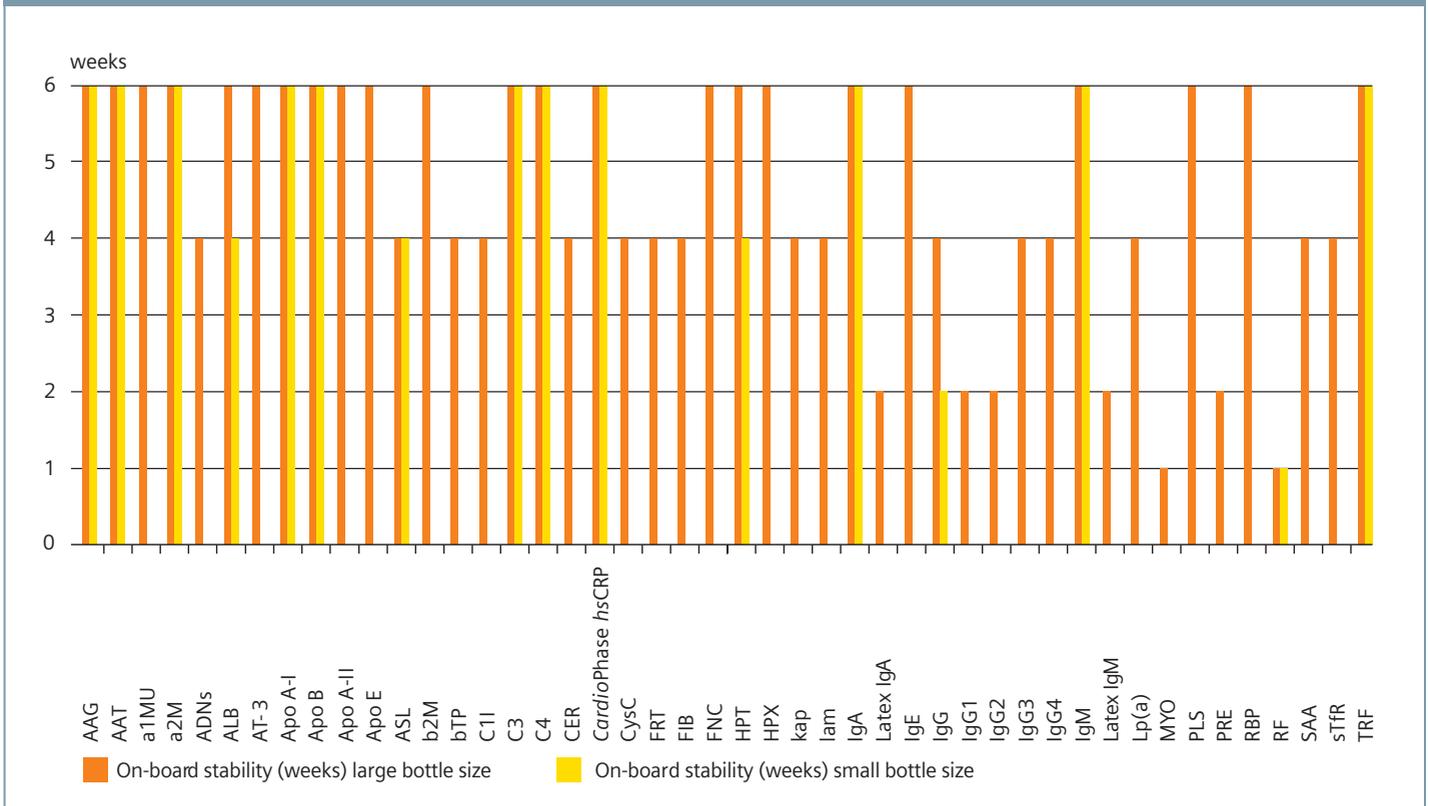
# Reagent rotor – easy to handle, refrigerated



## Cost-efficient determinations

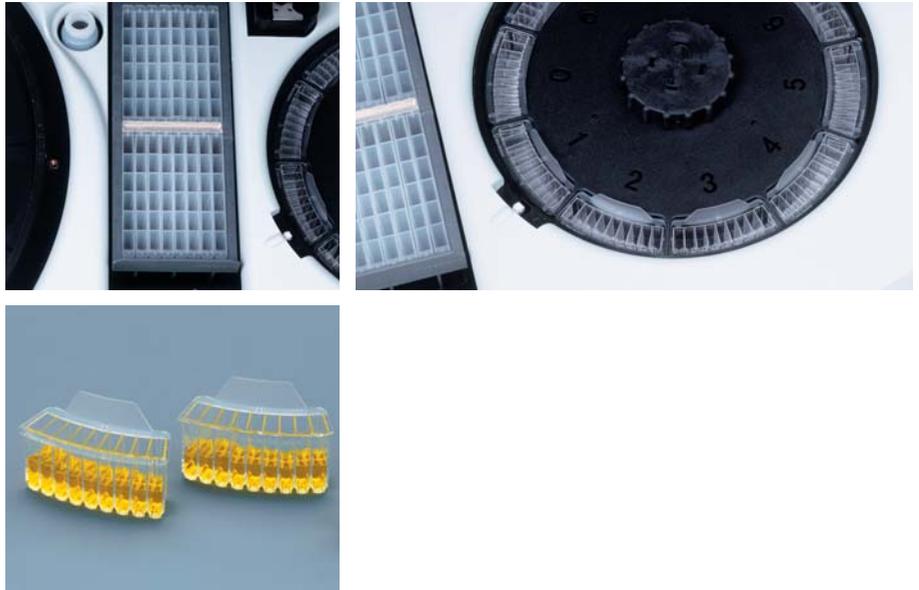
- Easy reloading of bar coded controls and reagents at any time
- Refrigerated on-board storage of controls and reagents
- Optimized storage conditions due to refrigeration and especially designed evaporation caps
- Inclined position of vials for maximum aspiration
- Multi-lot management
- Enhanced on-board stability in general  
1 week for controls and up to 6 weeks for reagents
- Long validity of reference curves

On-board stability of various N reagents



# Dilution and measuring area

- Automatic dilution of
  - Samples
  - Controls
  - Standards
- Configurable automatic re-measurements
- Software and hardware check of the dilution area
- Access to load/reload dilution cups at any time
- Temperature controlled measurements at 37 °C
- 90 disposable cuvettes easy to exchange
- Excellent precision and recovery



## The BN ProSpec System covers a wide range of clinical indications

### Arteriosclerosis risk/ myocardial infarction:

Apo A-I, Apo B, Apo A-II, Apo E, Lp(a), Myoglobin, Fibrinogen, *CardioPhase hsCRP*, Homocysteine

### Polyclonal and monoclonal gammopathies:

IgA, IgG, IgM, Ig/light chain, type kappa, Ig/light chain, type lambda, IgG subclasses 1 - 4

### Nephropathies:

Albumin,  $\alpha$ 1-Microglobulin, IgG, Transferrin,  $\beta$ 2-Microglobulin,  $\alpha$ 2-Macroglobulin, Total Protein, Ig/light chain, type kappa, Ig/light chain, type lambda, Cystatin C

### Inflammatory diseases:

*CardioPhase hsCRP*,  $\alpha$ 1-Acid Glycoprotein, Haptoglobin,  $\alpha$ 1-Antitrypsin, Fibrinogen, SAA

### Rheumatic diseases:

RF, ASL, *CardioPhase hsCRP*, ADNase B

### Blood-brain barrier dysfunctions:

IgG, IgA, IgM, Albumin, Total protein,  $\beta$ -trace protein<sup>#</sup>

### Allergic diseases:

IgE

### Malnutrition:

Prealbumin, Albumin, Retinol binding protein, Transferrin, Fibronectin

### Coagulation disorders:

Fibrinogen, AT III, Plasminogen

### Anemia:

Haptoglobin, Hemopexin, Transferrin, Ferritin, sTfR

### Complement consumption:

C3C, C4, C1 Inhibitor

### Others:

Ceruloplasmin, Carbohydrate-deficient Transferrin

### Software support:

Protis – result interpretation

Siemens Healthcare Diagnostics, the leading clinical diagnostics company, is committed to providing clinicians with the vital information they need for the accurate diagnosis, treatment and monitoring of patients. Our comprehensive portfolio of performance-driven systems, unmatched menu offering and IT solutions, in conjunction with highly responsive service, is designed to streamline workflow, enhance operational efficiency and support improved patient care.

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