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Smart. Simple. Secure.

Atellica NEPH 630 System



Atellica Portfolio of Laboratory Products

Engineered by Siemens Healthineers to deliver control and simplicity so you can drive better outcomes.

Tighter control of your lab, simplified workflow, and more time to focus on driving better business and clinical outcomes—that's the promise of our Atellica™ portfolio of laboratory products.

Control.
Simplicity.
Better Outcomes.

Labs seek control, simplicity, and better outcomes in protein testing.

Siemens Healthineers has helped shape and advance the protein testing market with more than 50 years of experience and five generations of dedicated nephelometric systems. We've pioneered advanced technologies and innovative assays in order to address the continuous pressure that labs are under to streamline workflow and processes, maximize service quality, improve cost efficiency, and drive better outcomes for clinicians and patients.

Pairing our commitment to innovation with increasingly higher standards to analyze proteins quickly, accurately, and in various body fluids, we have developed an easy-to-use system backed by a comprehensive protein testing menu that provides accurate, secure, and reliable results to support better patient outcomes. The result is the Atellica NEPH 630 System*—specifically designed for low- to mid-volume labs in need of reliable protein testing on cerebrospinal fluid, serum, urine, and plasma.

The Atellica NEPH 630 System is a dedicated nephelometric system that simplifies lab operations by offering the broadest menu of protein tests on multiple sample types. Part of the Atellica family, it streamlines workflow with highly intelligent software and provides smart, simple, secure testing.



*Not available for sale in the U.S. Product availability varies by country.

Simplify your protein testing. Integrate your disease-state quantification. Advance your capabilities.

Siemens Healthineers developed the Atellica portfolio of products to empower labs with stronger operational control and streamlined workflows for improved business and clinical outcomes. The Atellica NEPH 630 System combines the high-performance features customers expect from Siemens Healthineers nephelometric systems—including innovative

assays, continuous access, flexible sample processing, easy calibration, and reliable results—with advanced software capabilities and IT connectivity. Smart, simple, and secure—the Atellica NEPH 630 System stands out for its onboard capabilities, familiar Atellica user interface, and integration with end-to-end lab solutions.



Lab Goals	Objectives	Solution: Atellica NEPH 630 System
Expand test menu	Complement consolidated chemistry system platforms with assay menu to expand insight into patients' conditions.	More than 60 assay protocols—including innovative assays such as free light chains (FLC), carbohydrate-deficient transferrin (CDT), and beta-trace protein (BTP)—are available for multiple sample types, enabling advanced clinical decisions.
Streamline workflows	Eliminate bottlenecks due to limitations in staffing availability and expertise.	Sophisticated, intuitive software minimizes operator intervention by alerting operators when potential workflow disruptions occur.
	Reduce complexity of result reporting and data management.	Easily streamline data flow with highly intelligent software, system connectivity to lab information systems, and Atellica PM 1.0 Software† for optimized lab operations through data analytics and visualization.
	Minimize service disruptions.	Built on a history of high system reliability, with an average mean time between failure (MTBF) of 180 days.‡ System connectivity to Siemens Remote Service§ increases uptime and simplifies troubleshooting in the rare case it is needed.
Improve result quality	Provide accurate first-run results.	Optimized reaction conditions and pre-reaction protocols for selected assays ensure reliable results.
Protect data with cyber security	Minimize risk of data loss and/or disruption from malware.	State-of-the-art software provides a high level of cyber security to protect data from malicious software threats.

†Connectivity to Atellica NEPH 630 System is under development.

‡Data represents mean time between failure of current Siemens BN ProSpec® System.

§Requires syngo® Lab Connectivity Manager.

Control

Simplicity

Better Outcomes

Gain more control over your protein workflow. Simplify lab operations. Improve financial and clinical outcomes.

Control

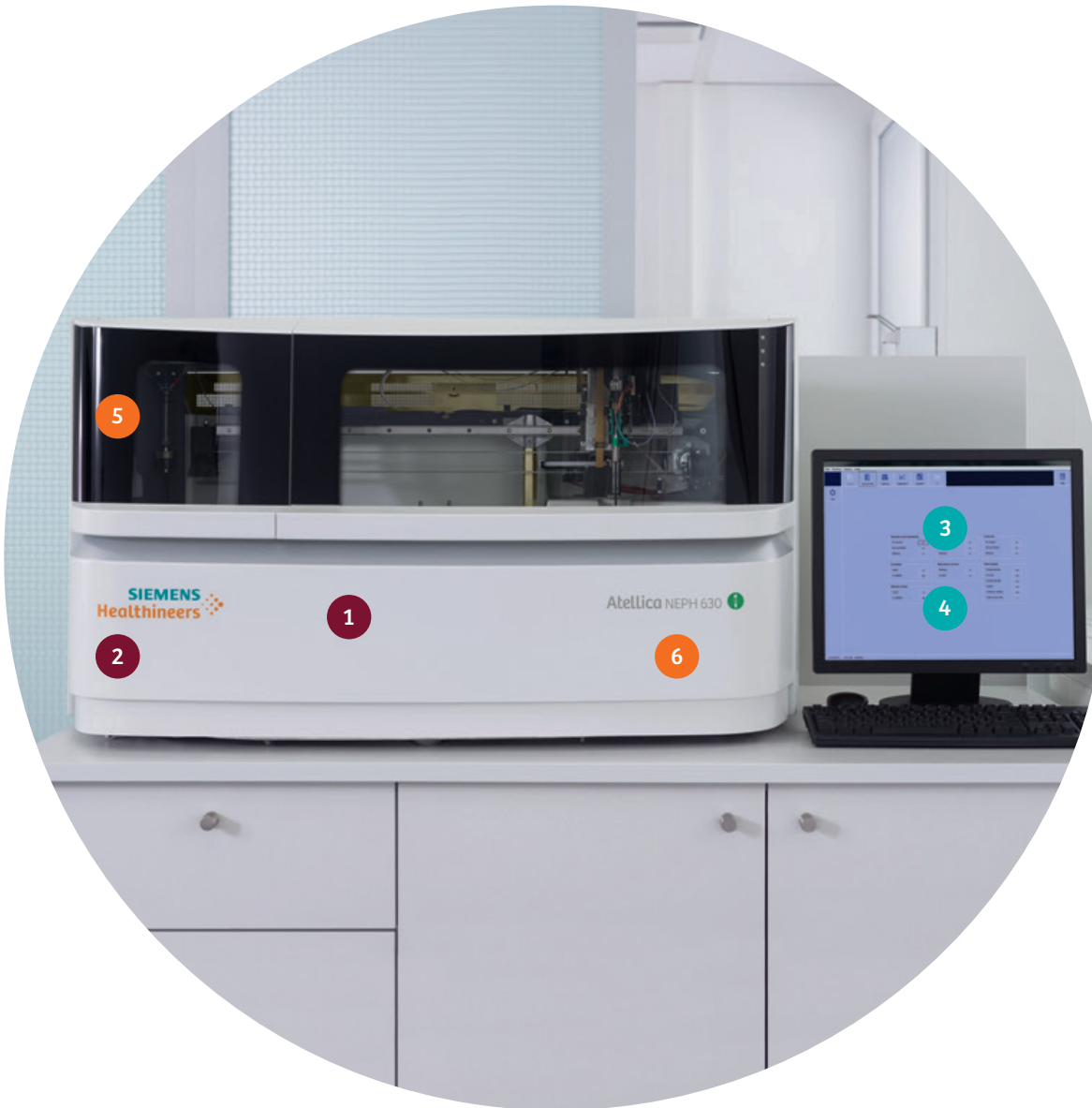


1 Expand your testing capabilities with the broadest menu of protein tests on multiple sample types.

- Features the industry's largest nephelometric menu of plasma protein assays.
- Flexible testing options enable testing on serum, urine, plasma, and CSF.
- More than 50 years of experience in protein analysis has led to longtime cooperation with IFCC in developing widely accepted standards.

2 Minimize hands-on time so laboratory staff can focus on high-value responsibilities.

- Flexible use of different sample types in random-access mode allows convenient operation.
- Onboard reagent and control storage provides 24/7 operation, long onboard stability, and minimized operator intervention.
- High sample-loading capacity allows load-and-go processing.
- Positive bar-code ID of primary sample tubes minimizes manual steps and avoids sample mismatch.
- Automatic dilutions and repeat measurement of out-of-range high or low samples are performed without user intervention.



3 Streamline your Lab workflows with highly intelligent software and IT connectivity.

- Integration with Atellica PM 1.0 Software^{*} simplifies lab management via aggregated system data, alerts, and remote control capability^{**}.
- Siemens Remote Service identifies and diagnoses potential hardware issues, enabling rapid technical intervention and quicker resolution.
- Advanced QC interface provides comprehensive statistics, allowing the transmission of control results to the LIS.

4 Deliver accurate and secure results.

- Proven nephelometric technology offers high precision and reproducibility.
- Sophisticated antigen-excess pre-reaction protocols provide more accurate results and fewer repeats.
- Wide initial measuring ranges reduce the need for retesting.
- System detects specimen and reagent levels prior to processing to ensure accuracy of results.
- Graphical display of kinetic curves allows additional insight and advanced troubleshooting.
- State-of-the-art software provides a high level of cyber security.

5 Save time and reduce waste with continuous access and smart technology.

- Flexible dilutions and automatic retesting can often be performed without re-accessing the primary sample.
- Fast average throughput of 65 tests^{††} per hour. Nominal: 100 tests/hour.
- Sophisticated sample dilutions enable you to add tests or retest samples quickly.
- Samples and reagents can be loaded and reloaded continuously without interrupting the assay run.

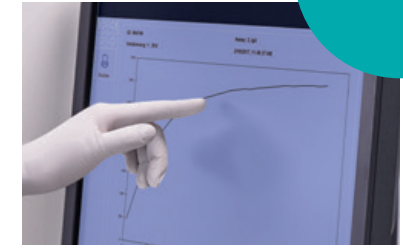
6 Empower clinicians to improve patient outcomes.

- PROTIS[®] Assessment Software^{‡‡} consolidates patient test results into one simple report with algorithm-based interpretation of results to support physicians in clinical decision making.
- Lot-to-lot consistency ensures concordance of results, providing physicians with reliable insight into the progression of disease.

^{*}Connectivity to Atellica NEPH 630 System is under development
^{**}Requires virtual network computing (VNC) or remote desktop capability.
^{††}Depending on assay profile.
^{‡‡}PROTIS Assessment Software not available for sale in the U.S. Product availability varies by country. Please contact your local representative for availability.



Simplicity



Better Outcomes



Expand your protein testing menu. Get a complete disease-state picture. Drive better outcomes.

Protein quantification has many applications across a range of disease states. Siemens Healthineers offers the industry's largest nephelometric menu of plasma protein assays, including cardiac risk assessment, kidney diseases, neurological disorders, nutritional assessment, and iron and anemia assessment, supported by innovative assays such as free light chains (FLC), carbohydrate-deficient transferrin (CDT), and beta-trace protein (BTP).

N Latex FLC kappa and N Latex FLC lambda Assays^{§§} are designed for improved management of patients with monoclonal gammopathies.

- Excellent lot-to-lot reproducibility
- High specificity based on monoclonal antibodies
- Pre-reaction protocols provide high antigen-excess security
- Reagents, supplementary reagents, standards, and controls available separately and can be freely combined

N Latex BTP Assay^{§§} is a fast and accurate screening method for detection of cerebrospinal fluid (CSF) and estimation of residual renal function (RRF).

- Two applications—one convenient, fully automated assay
- Fast detection of CSF leakage
- Easy and reliable determination of RRF in dialysis patients
- High specificity and sensitivity
- Low incidence of false-positive results

N Latex CDT Assay provides a highly specific method for the detection of chronic alcohol abuse.

- Highly specific monoclonal antibody directly detects CDT
- Automatically calculates %CDT by running CDT and Transferrin assays simultaneously
- Fast results—within 20 minutes (total assay time)
- Random-access capability
- Reliable results—excellent recovery between labs, systems, and lots

IgG Subclass 1–4 Immunoassays offer a comprehensive solution for IgG determination. The determination is indicated for diagnostic clarification in patients suffering from a broad range of conditions associated with both immune and nonimmune abnormalities. The ability to measure all four subclasses provides insight into deficiencies that may be masked in a total IgG measurement or predominant IgG1 levels.

- Comprehensive solution from one source
- Innovative assays that align with the trusted BN™ Systems
- Pre-reaction protocols for antigen-excess security



Assay Menu

The Atellica NEPH 630 System is a powerful addition to Siemens Healthineers plasma protein products, delivering accurate results and providing a comprehensive disease-state picture for better clinical outcomes. With the broadest range of plasma protein assays across multiple sample types on an easy-to-use and reliable nephelometric system, Siemens Healthineers delivers diagnostic performance for confident decision making.

Polyclonal and Monoclonal Gammopathies/ Immune System

β₂-Microglobulin
FLC kappa^{§§}
FLC lambda^{§§}
Ig/Light Chain, type kappa
Ig/Light Chain, type lambda
IgA
IgG
IgG subclasses 1-4
IgM

Kidney Disease

α₁-Microglobulin urine
α₂-Macroglobulin urine^{§§}
β₂-Microglobulin urine
β-trace protein^{§§}
Albumin urine
Cystatin C serum
FLC kappa urine^{§§}
FLC lambda urine^{§§}
Ig/Light Chain, type kappa urine^{§§}
Ig/Light Chain, type lambda urine^{§§}
IgG urine
NGAL^{§§}
Transferrin urine

§§Not available for sale in the U.S.

Inflammation

α₁-Acid Glycoprotein
CRP (*CardioPhase*[®] hsCRP)
Fibrinogen
SAA^{§§}

Autoimmune/Rheumatoid Diseases

ADNase B
ASL
C3c
C4
CRP
RF

Cardiovascular Risk/Acute Cardiac Care

Albumin urine
Apo A-I
Apo B
Cystatin C
Fibrinogen
High-Sensitivity CRP (*CardioPhase*[®] hsCRP)
Homocysteine
Lp(a)
Myoglobin

Chronic Alcohol Abuse

CDT
Transferrin (for %CDT calculation)

Allergic Diseases

IgE

Nutritional Assessment

Albumin
CRP
Ferritin
Prealbumin
RBP (retinol-binding protein)

Coagulation Disorders

AT-III
Fibrinogen
Plasminogen

Anemia/Iron Metabolism

Ferritin
Haptoglobin
Hemopexin
sTfR
Transferrin

Complement Activity

C1 Esterase Inhibitor
C3c
C4

Blood-CSF Barrier Dysfunction

Albumin
Albumin CSF
β-trace Protein^{§§}
FLC kappa CSF^{§§}
FLC lambda CSF^{§§}

IgA
IgA CSF
IgG
IgG CSF
IgM
IgM CSF

Other Specialty Analytes

α₁-Antitrypsin
α₂-Macroglobulin serum
Apo A-II^{§§}
Apo E^{§§}
Ceruloplasmin
Fibronectin^{§§}

To learn more about the Atellica NEPH 630 System and how we can help meet your plasma protein testing needs, please contact your local Siemens Healthineers representative today.