

Automated Immunoassay System

HISCL-800

Redefining Performance
and Speed



A close-up photograph of a person wearing a white lab coat and white gloves. The person is loading a blue and white reagent cartridge into a slot on a light-colored laboratory instrument. The instrument has a curved top and a black tray at the bottom. The background is a plain, light-colored wall.

HISCL-800 isn't Simply Compact – it's Fast and Reliable.

Our innovative solution for your laboratory. A robust analyser with a small footprint, the HISCL-800 immunoassay analyser is designed to meet the evergrowing needs of your lab.

The HISCL-800 has inherited its design and technology from the HISCL-5000, including its reagents and consumables system.

TECHNOLOGY YOU CAN TRUST

Rapid Analysis

With a fast reaction time for every parameter, it takes 17 mins to get the first test result. The HISCL-800's rapid analysis enables laboratories to meet their reporting objectives, especially for *STAT* samples.

Patient reports can be generated faster, enabling timely patient diagnosis and treatment.



Low Sample Volume

Testing of samples from pediatric and geriatric patients is no longer a concern. The HISCL-800 requires a sample volume of only 10 to 30µL for every parameter.

Superior Performance

High Sensitivity

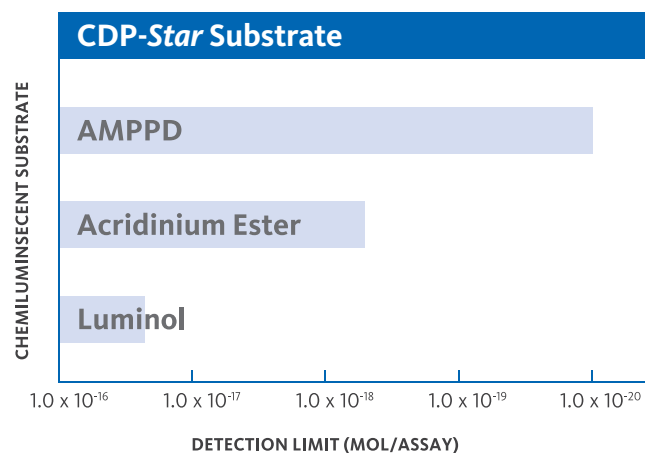
High sensitivity is achieved by adopting the brilliant CDP-*Star* chemiluminescent substrate in the measurement system.

Strong luminescence from CDP-*Star* is efficiently detected using an optical filter. The high sensitivity and wide measurement range is key to low sample volume application.

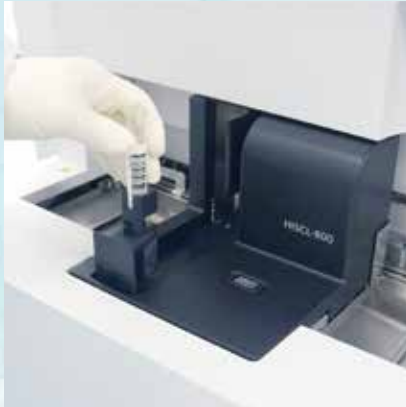
High Specificity

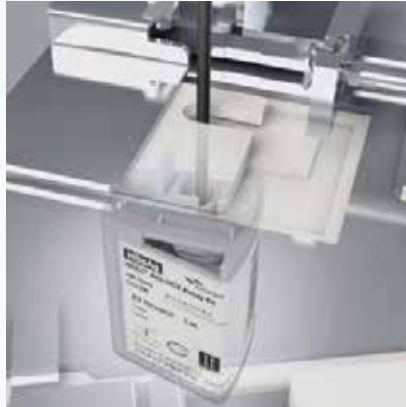
High specificity is made possible by using the bound-and-free (B/F) separation method in the washing procedure. Unreacted materials are efficiently removed, minimising non-specific reactions.

Comparison of Detection Limit between Various Chemiluminescent Substrates for Immunoassays



Excellent Usability





Convenient *STAT* analysis

Located in the middle of the sampler, the *STAT* port is strategically positioned to allow urgent samples to be processed speedily.

User friendly interface

The 21-inch large color touch screen display features an intuitive user interface design with large icons. The software functions efficiently support day-to-day operations providing immediate access to information such as reagent levels and testing progress status.

Efficient reagent management system

RFID (Radio Frequency identification) allows efficient management of reagents. Reagent information such as expiry date and remaining tests can be tracked with ease. The reagent compartment keeps the reagent cool for 24 hours, thus ensuring its stability.

Reliable anti-carry-over system

The one-time use disposable pipette tips and reaction cuvettes eliminate carry-over in the testing system. In addition, utilising a membrane filter to clean the nozzle each time it dispenses, the HISCL-800 gives you peace of mind, assuring high quality and consistent results all the times.

High Sensitivity

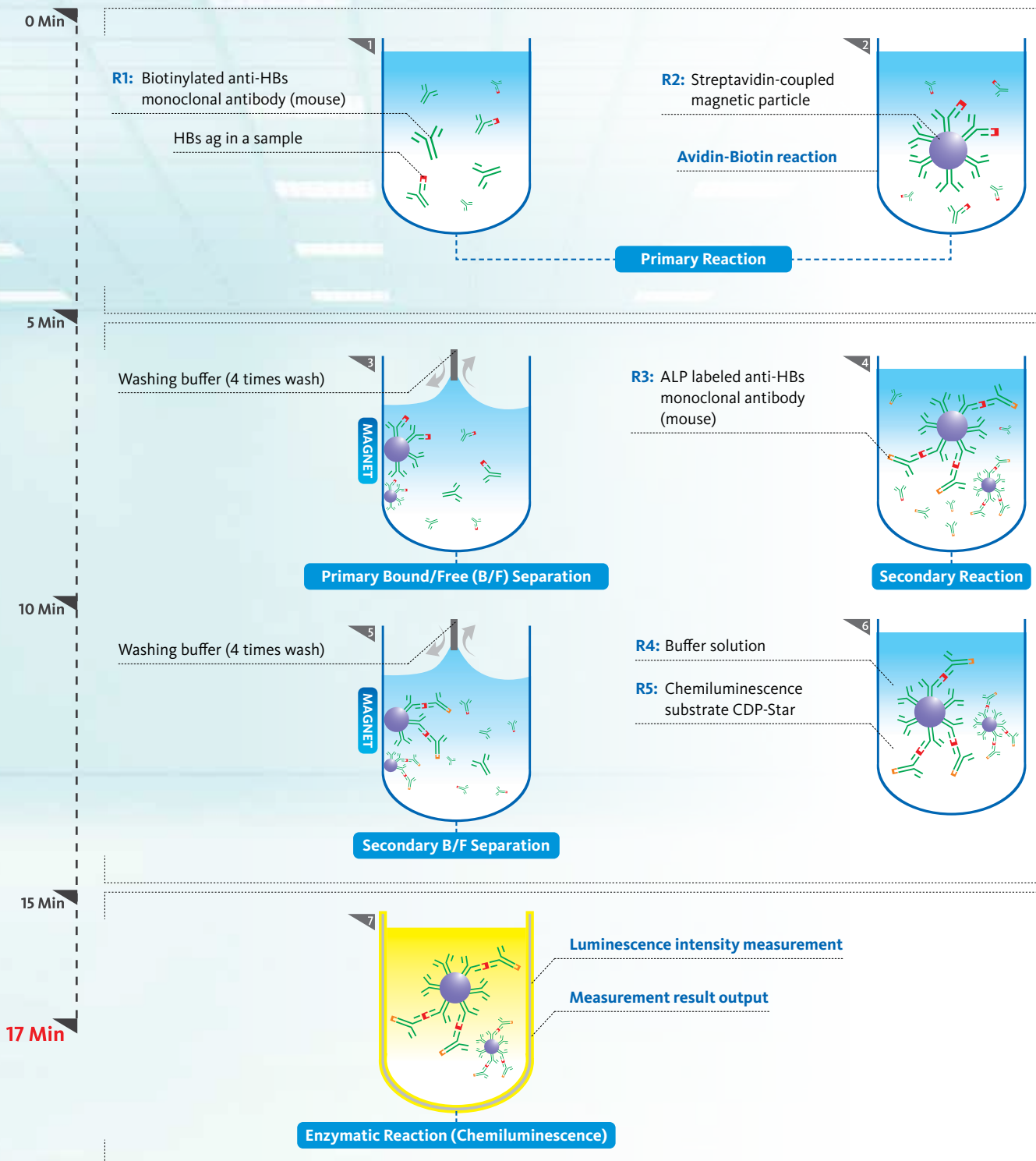
HISCL Hepatitis B Virus Surface Antigen (HBsAg) Assay Analytical Flow

The HISCL HBsAg is a 2-step competitive assay based on Chemiluminescence Enzyme Immunoassay (CLEIA) method using CDP-Star chemiluminescent substrate.

Improved Reaction Efficiency at 42 °C

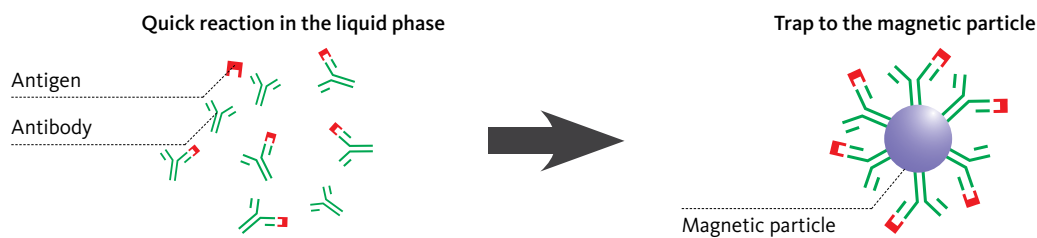
Setting the entire reaction temperature at 42 °C increases the antigen-antibody encounters, therefore it increases the efficiency of assay.

Reaction Flow (HBsAg Measurement)



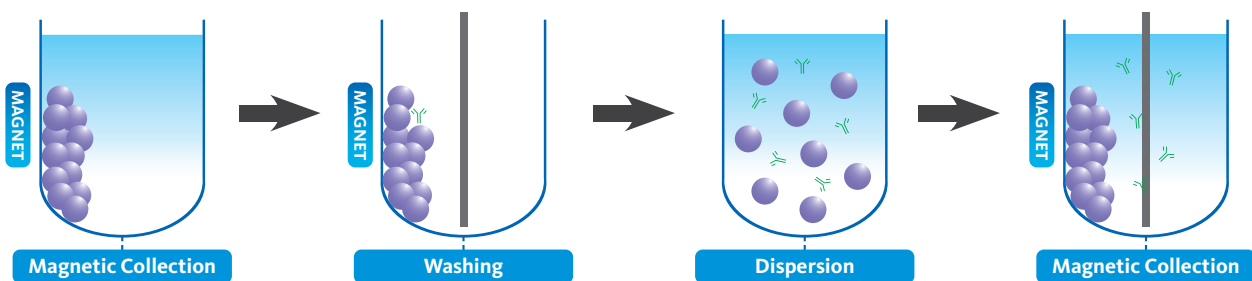
Antigen-antibody Reaction Speed Up by Liquid Phase - Liquid Phase Reaction

The liquid phase - liquid phase reaction system is adopted for primary reaction. This increases the frequency of antigen-antibody reaction.



Increased Specificity Through Background Reduction

Background influence is reduced by the improved efficiency of separation of reactants from unreacted materials (B/F separation). Each wash cycle is performed 4 times.



Wide-range Detection with an Optical Filter

Strong luminescence from CDP-*Star* is efficiently detected by using an optical filter. Highly sensitive and wide-range measurement is therefore possible.

Specifications

Measurement Principle	Chemiluminescence Enzyme Immunoassay (CLEIA)
Number of Parameters Onboard	Up to 24 parameters
Processing Capacity	100 tests per hour
Reaction Time	Approximately 17 minutes (time from sample aspiration to measurement result display)
Sample Capacity	Up to 30 samples
Number of STAT Positions	1 sample
Sample Volume	10-30 μ L
Sample Container	Test-tube (Open) Diameter (Outside diameter): 13-16 mm Height: 75-100 mm Dead volume: The depth of the serum or plasma component from the surface of liquid is 5 mm or more Sample cup 4 mL conical cup Dead volume: 0.15 mL
Reagent Management Function	Assay reagents, Luminescence substrate set: RFID Line washer, cleaning fluid, probe washer: barcode
Data Storage	100,000 sample results (maximum)
Quality Management	L-J (Chart) or X-bar (Chart)
External Output	RS232C, LAN
Power Supply Specifications	Analyser: AC 100-240 V AC Pneumatic Units: 220-240 V AC Rated Frequency: 50 Hz/60 Hz
Printing System	External printer
Accessory	Handheld barcode reader
Options	Drainage tank, indicator light

Data

Main Unit (including the sampler)	Dimensions (W x D x H) Approximately 1,018 x 1,089 x 1,295 mm Weight Approximately 320 kg
Compressor	Dimensions (W x D x H) Approximately 280 x 355 x 400 mm Weight Approximately 17 kg

Quick support of network utilisation - SNCS^{*1}

SNCS is a service that enables customers to connect their analytical equipment to the Sysmex Technical Support Center via the Internet, providing real-time external quality control, online support, Web-based information delivery, and precision management and automatic monitoring. The real-time support will contribute to construction of more comfortable and safer use environment for customers.

^{*1} SNCS: Sysmex Network Communication Systems (A separate [paid] agreement is needed to use this service)

Note



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