

Automated immunoassay system

HISCL-800

Challenges are welcome.
When you are confident.

A large, colorful 3D graphic of the words "ROBUST", "STRONG", "FAST", and "SMART" stacked vertically. "ROBUST" is purple, "STRONG" is red, "FAST" is yellow, and "SMART" is green. The letters are thick and blocky. The graphic is positioned in front of a white Sysmex HISCL-800 machine in a clinical setting. A small lightbulb icon is visible near the bottom right of the "SMART" text.

ROBUST
STRONG
FAST
SMART



'We manage.
We've got **HISCL**.'

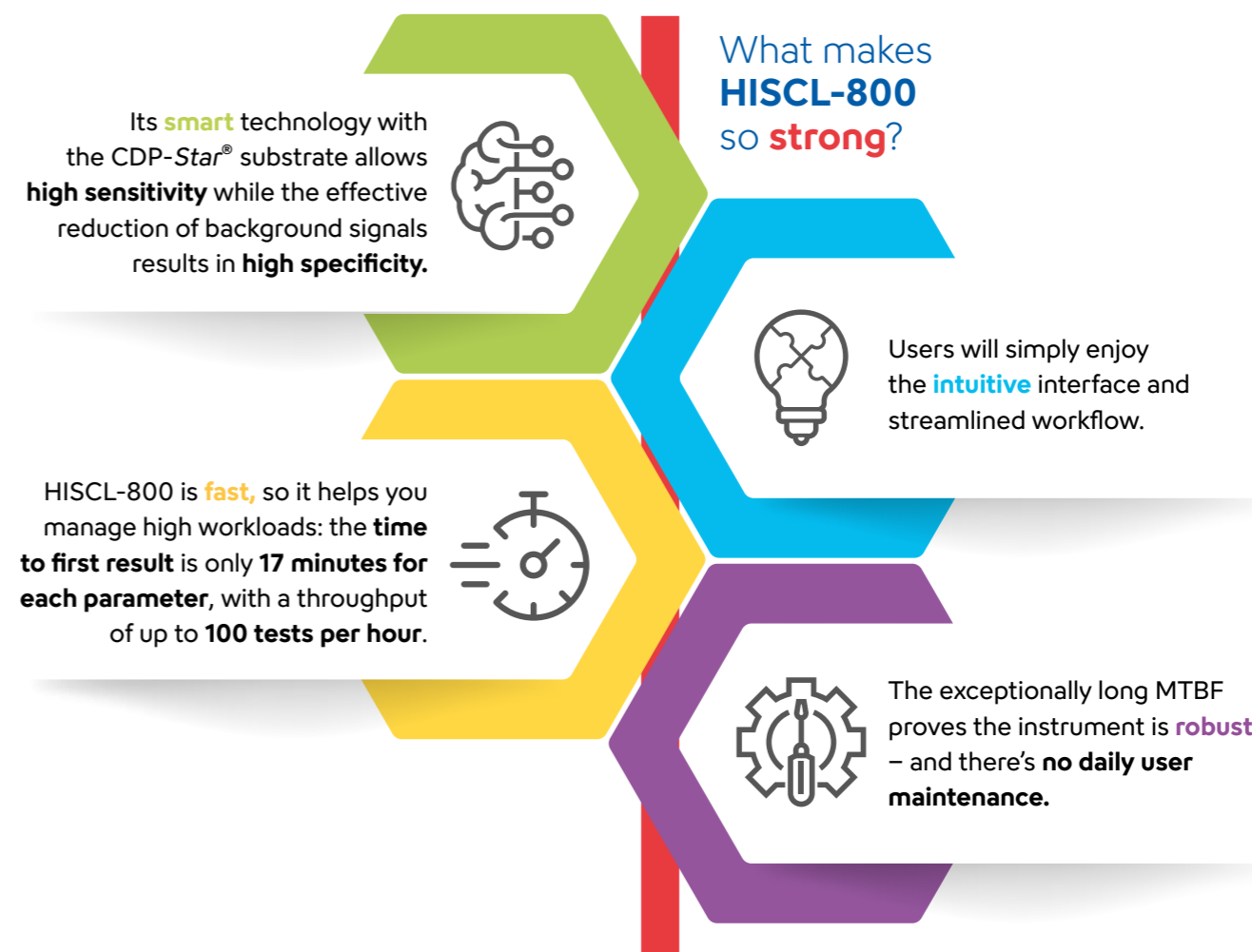


Hundreds of thousands of Sysmex installations in haematology, urinalysis and haemostasis labs prove every day how reliable our equipment is. Customers across the globe appreciate their gain in productivity and the high quality of the results. We know how important a smooth workflow is, and we know how to achieve that. Put us to the test.



Challenges can leave you stronger and give you a sense of satisfaction when you cope well. The HISCL-800 helps you cope with growing needs. It impresses with its strength, for example the robustness and small footprint.

This fully automated, random-access immunochemistry analyser has been designed to meet the requirements of mid-to high-throughput clinical labs in terms of efficiency and ease of use. Years of experience with an installed base of **several thousand systems** at Asian customer sites make HISCL a **technology you can trust**.



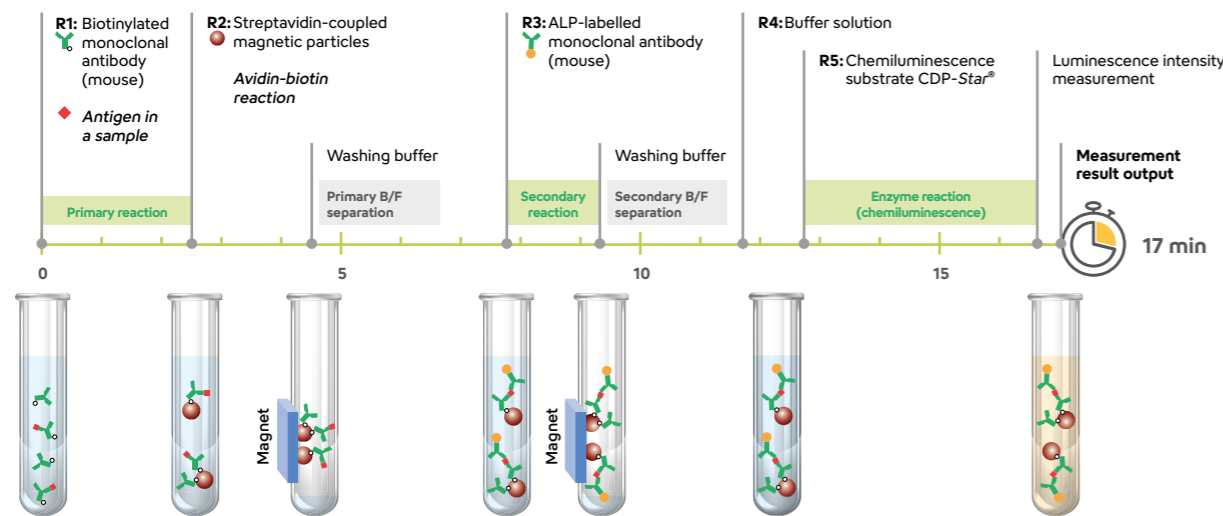


Smart technology means excellent results

State-of-the-art technology delivers results you can trust

'HISCL' stands for 'Highly Sensitive Chemiluminescent' technology and is a fully automated random access immunoassay analyser. The technology is designed to provide fast and accurate results for minute traces of various protein biomarkers in body fluid samples including blood.

Reaction flow (antigen measurement)



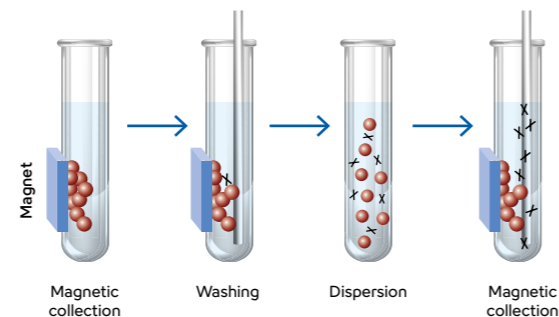
Highly sensitive measurement

High sensitivity is achieved by adopting the CDP-Star® chemiluminescent substrate in the measurement system. Its **signal is four times stronger** than those of conventional luminescence substrates – across the whole measurement range.

Using an optical filter, CDP-Star®'s strong luminescence is efficiently **detected across a wide range**. This enhances sensitivity, so more reliable sample results can be obtained right away.

Reduced background signals

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



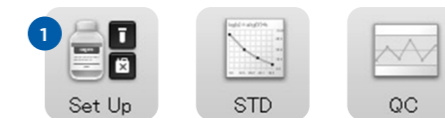
Intuitive operation for an enjoyable user experience

Efficient reagent management system

RFID (radio frequency identification) supports an efficient management of reagents. Reagent information such as expiry date and remaining tests can be tracked with ease. The reagent compartment keeps the reagents cool and ensures their stability.

User-friendly interface

The 21-inch colour touch screen displays the intuitive user interface with large icons. You can access information such as reagent levels and the status of testing progress immediately via the software functions. This efficiently supports your daily routine operations.

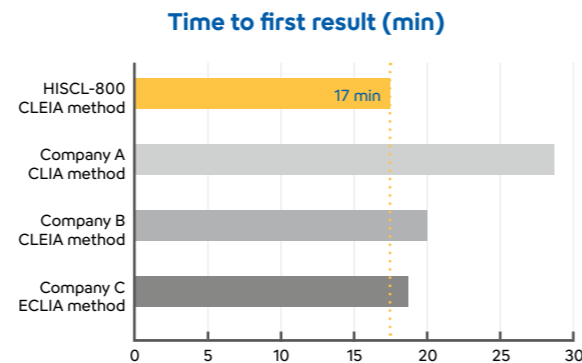




Fast processing to cope with high workloads

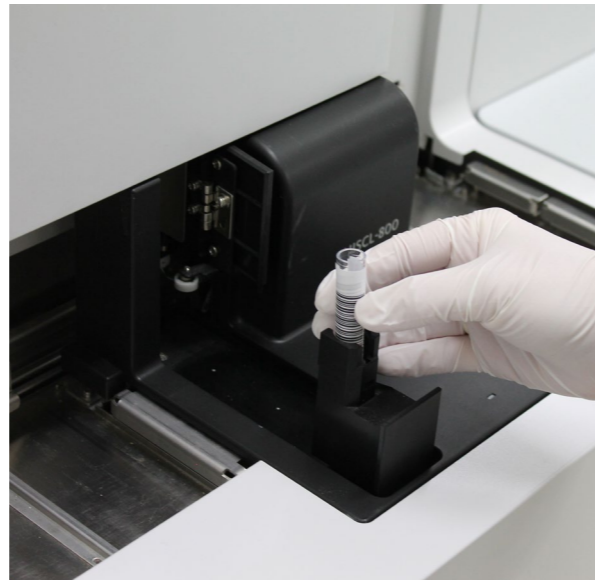
Short time to results

With a short reaction time for every parameter, it takes only 17 minutes to get the first test result. The HISCL-800's rapid analysis helps laboratories meet their reporting objectives, especially for STAT samples. Patient reports can be generated faster, enabling timely patient diagnosis and treatment.



Rapid formation of immune complexes

The liquid phase - liquid phase reaction system combined with a set temperature of 42°C throughout the entire reaction increases the antigen-antibody encounters, and so increases the overall efficiency of the assay.



Convenient STAT analysis

Have your urgent samples processed speedily – simply place them in the STAT port strategically positioned in the middle of the sampler.



A robust device giving you peace of mind

Proven robustness

Based on our experience in global markets, HISCL-800 has demonstrated a very long mean time between failure (MTBF) of 374 days* on average. The system will support you reliably day in and day out.

Reliable anti-carry-over system

The **single-use pipette tips** and **reaction cuvettes** eliminate carry-over in the testing system. By utilising a **membrane filter** to clean the nozzle each time it dispenses, the HISCL-800 ensures high-quality and consistent results all the time. So you can have confidence in them.

Highly reliable dispensing system

Sample aspiration and dispensation is monitored by a pressure sensor to detect blockages, insufficient sample volume or leakage from the pipette tip. This effectively prevents erroneous measurements.

No daily user maintenance

The HISCL-800 needs only little user attention since it is mostly self-maintaining. Simply check the status of the reagents and consumables via the [Set Up] screen once a day. After 1,000 tests, it is time to clean the sample nozzle and related membrane filter – that is all.



*Based on data from global markets

Key specifications

Measurement principle	chemiluminescence enzyme immunoassay (CLEIA)
Detecting element	photoelectron multiplier; wide range with optical filter
Throughput	100 tests per hour
Time to first result	17 minutes (time from sample aspiration to result display)
Sampler capacity	up to 30 samples (6 racks x 5 samples)
Number of STAT positions	1 sample
Required sample volume	10 – 30 µL
Sample containers	
Sample tube	outer diameter: 13 – 16 mm, height: 75 – 100 mm
Sample cup	4-mL conical cup
Sample dispensation	disposable tip, sample arm wiped on filter
Reagent identification	RFID, barcode
Reagent containers	cartridge system with automatic opening/closing
Data storage	100,000 sample results (maximum)
Quality control	select L-J (chart) or X-bar (chart)
Display (user interface)	21-inch touch screen
Interface (external output)	RS232C, LAN
Printing system	external printer
Options	direct drainage or waste tank, indicator light
Dimensions/weight	
W × H × D [mm/kg]	
Main unit including sampler	approx. 1,018 x 1,295 x 1,089 / approx. 320