

# 501RP+

DATA MANAGEMENT SOFTWARE  
FOR TOSOH'S CLINICAL HPLC  
AND IMMUNOASSAY SYSTEMS



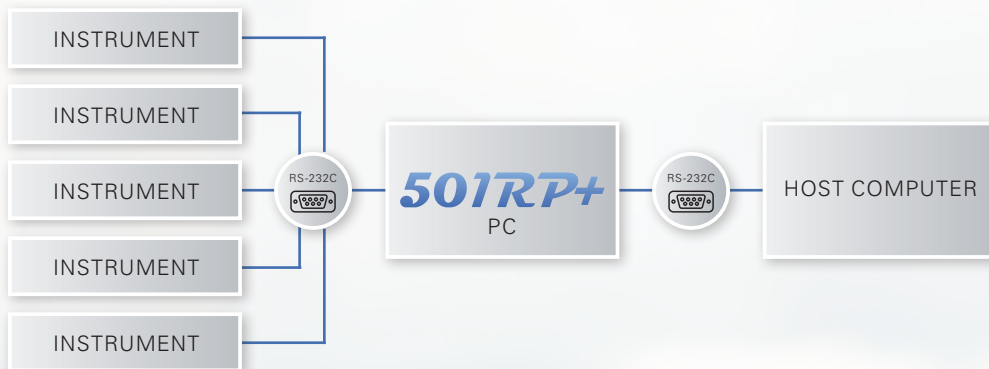
**TOSOH BIOSCIENCE**

# OPERATIONAL FEATURES



## CONNECTIVITY

- Connect up to 5 Tosoh instruments in bidirectional way with the 501RP+ desktop PC
- Connect Tosoh HLC-723G8, HLC-723GX, HLC-723G11, AIA-360, AIA-900, AIA-2000



## DAILY CONVENIENCE

- Day-to-day activity check
- Colour-coded workflow status overview
- Analyte statistics
- Print results in flexible format
- Customizable Patient results chart
- Search functions on analysis mode/ type of instrument
- Manual validation

The screenshot shows the 501RP+ software interface. At the top, there are menu options: File, View, System, Help. Below that, there are buttons for Monitor and GHB Result. The main area contains a table with the following columns: Specimen ID, Material, Order Comment, Analyte1, Analyte2, Analyte3, Analyte4, Analyte5, Patient ID, and SS No. The table contains 6 rows of data. Row 6 is highlighted in orange. Below the table, there is an 'Order Field' section with a table for entering patient information and buttons for Print, Control, and Fix Order.

Specimen ID	Material	Order Comment	Analyte1	Analyte2	Analyte3	Analyte4	Analyte5	Patient ID	SS No.
1412080001	Sp.1		sA1c% Std	F% Var	sA1c% Var			951200001	8001010001
1412080002	Sp.1		F% Var	sA1c% Var				951200002	8001010002
1412080003	Sp.1		F% Var	sA1c% Var				951200003	8001010003
1412080004	Sp.1		F% Var	sA1c% Var				951200004	8001010004
1412080005	Sp.1		F% Var	sA1c% Var				951200005	8001010005
8021975	Control		F% Var	sA1c% Var					

# RESULT AND REAGENT MONITORING



## QUALITY CONTROL FOLLOW-UP

- Levey-Jennings plots for QC result follow-up
- Selectable Westgard rules for in depth QC analysis
- Follow-up of all used QC material

Instrument ID: G8-1 Last Updated: Wednesday, October 23, 2013 8:28:16 PM

- R1: One control observation exceeds the value of mean +/- 'n' SD. 'n' = 1.30
- R2: One control observation exceeds the value of mean +/- 'n' SD. 'n' = 1.30
- R3: Two consecutive control observations exceed the value of mean +/- 'n' SD. 'n' = 2.00
- R4: The difference between two consecutive control observations exceeds the value of +/- 'n' SD. 'n' = 2.00
- R5: Four consecutive control observations exceed or fall the value of mean +/- 'n' SD in the same. 'n' = 3.00
- R6: Ten consecutive control observations exceed or fall on the same side of the mean. 'n' = 3.00

OK Cancel



## TRACEABILITY

- Trace patient results back to the reagent lot number used for the analysis\*
- Trace reagents towards expiry date\*
- Trace maintenance and service interventions\*\*

Instrument ID: G8-1  Enable the reagent traceability.

Type of Reagent	Lot number	Expiration Date	On-board Date	Expiration after opening	Remaining Days	Comment
Column	SJ1497A	12/1/2016	12/11/2014			
Elution 1	D8-101S	12/1/2015	12/11/2014	3/11/2015	90	
Elution 2	D8-201S	12/1/2015	12/11/2014	3/11/2015	90	
Elution 3	D8-301S	12/1/2015	12/11/2014	3/11/2015	90	
HWS	HW12E/B	3/1/2016	12/11/2014	3/11/2015	90	
Control	AB2040	12/1/2015	12/11/2014	12/18/2014	7	
Calibrator	ZS2002	12/1/2015	12/11/2014	12/18/2014	7	

Edit Comment Replace the Reagent

On-board Trace

\* For GX, G8 and G11 instruments only.

\*\* Screen not shown.

# SPECIFIC FEATURES FOR HLC-723<sup>®</sup>G8 AND HLC-723<sup>®</sup>G11

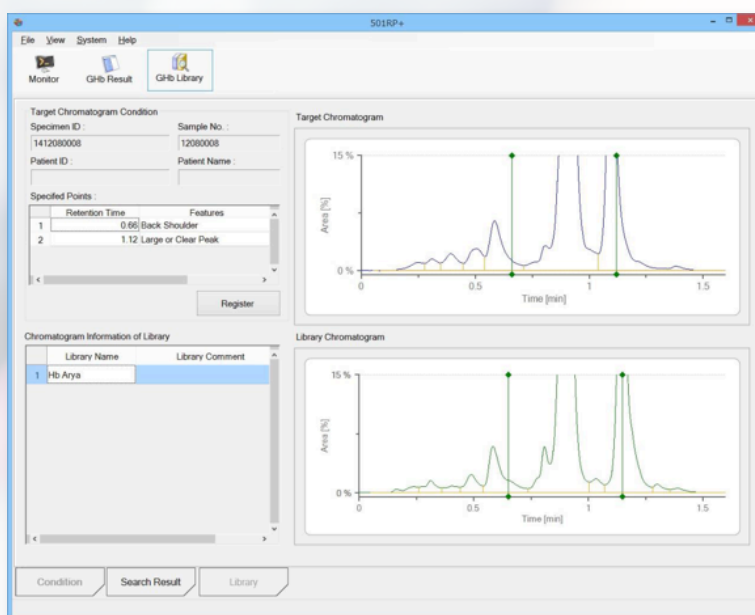


## CHROMATOGRAM CHECK

- Adaptable
- Haemoglobin variant chromatogram database/library\* featuring:
  - Overlays of known chromatograms
  - Haemoglobin chromatogram comparison tools in both HbA1c and  $\beta$ Thalassaemia mode
  - Haemoglobin chromatogram search based on peak elements (shoulders, tails, peak width)



- Chromatogram comparison



\* The 501RP+ will compare chromatograms with similar results obtained previously. For unambiguous positive Hb variant identification, DNA analysis should be carried out. Feature available for G8 and to become available for G11 in the near future.



# DATA HANDLING



## DATA MANAGEMENT FEATURES

- Microsoft SQL server based database structure
- Realtime backup by realtime data mirroring on user definable location



## SYSTEM REQUIREMENTS

- PC
  - Computer and processor: Intel Core i5 3GHz or faster processor
  - Memory (RAM): 8 (GB) or more
  - Hard Disk: 500 (GB) or more
  - Display: 1280 x 1024 or higher resolution monitor
  - Operating System: Windows 8.1 Pro/Windows 10 Pro
- USB-Serial converter: MOXA Uport1610-8



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