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# GENERAL CATALOG 2023

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HEMATOLOGY **BIOCHEMISTRY** IMMUNOLOGY



Improve Healthcare worldwide



*“Excited to lead SFRI  
India into a future of  
innovation and  
sustainable growth.  
Together, let's harness  
the power of science to  
shape a better  
tomorrow.”*

Rohit Singh Tajpuriya, (SFRI's CEO) South Asia

**M**aking technology accessible to everyone is a conscious choice. While we could have confined advanced healthcare solutions to developed nations, our commitment lies in democratizing healthcare access for all in the Indian market. SFRI strives to manufacture high-quality and efficient reagents and instruments within India and Europe, ensuring competitive prices to facilitate widespread availability.

At SFRI, our mission goes beyond mere sales; we are driven by a larger ambition – the genuine enhancement of public health in the region. Our collaboration with the NEOVITEA group provides us with the necessary expertise to meet the diverse healthcare needs in India. Moreover, we prioritize continuous engagement with our partners, valuing their insights and recommendations as they navigate the dynamic healthcare landscape. Together, we evolve and contribute towards the betterment of healthcare on a global scale.

Our commitment to improvement is reflected in the values associated with SFRI during our recent annual seminar: "Warmth, Adventure, Diversity, and Ambition." These principles inspire our business strategy, guiding us to aspire to make healthcare universally accessible. SFRI aims to be more than a business; we want to be recognized as a human adventure for life, fostering warmth, diversity, and ambition in every aspect of our operations.

To achieve this vision, we rely on our dedicated team, the backbone of SFRI. Their expertise, motivation, and confidence in the future of SFRI drive our collective effort to overcome challenges. We pledge to continue sharing our knowledge, expanding our product range, and enhancing customer care. SFRI's team is not just experienced and motivated; they are also resolute in their belief that SFRI will play a pivotal role in shaping the future of healthcare in India.



*"Why shouldn't small and medium laboratories have access to the same level of quality and precise results as big laboratories ?"*

Gilles Mouglin, (SFRI's CEO) Europe, Middle East & Far East

**B**ringing technology within everyone's reach is a choice. We could have reserved French know-how to developed countries, but we decided to make healthcare available to all; to produce quality and performant reagents and instruments, in France and in Europe, at competitive prices.

That is why we at SFRI do not sell to sell. We have always had at heart a bigger ambition: to really improve world health. Its approach. Its access.

How to achieve this ambition?

First, we rely on the NEOVITEA group which offers all the skills SFRI needs. Then, we keep listening to our partners, their needs and their recommendations. They are the ones in the field. They guide us. Together we grow and work to improve healthcare worldwide. Finally, we stay motivated and keep pioneering.

I'm proud to say that during our last annual seminar, my team associated 4 words to SFRI: "Warmth, Adventure, Diversity and Ambition". This idea is really stimulating for the businessman that I am.

We put together our project and decided that SFRI should "aim to make Healthcare accessible to all" and make sure that we remain "a Human Adventure for Life".

And for that, I know I can count on my dedicated staff to meet any upcoming challenges. We will keep on sharing our know-how, developing our product range and bettering our customer care. My team is experienced, motivated but what's more, they are confident in SFRI's future.



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# HEMATOLOGY

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2. HEMIX 5-60
3. HEMIX 5-PRIME
4. ESR 3000
5. COMPATIBLE REAGENTS



1



2



3



4



5

# HEMIX 3-60

Premium analyzer, with 2 reagents only  
3-part diff - 60 tests / h

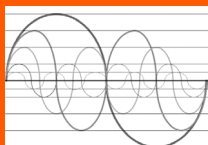
2 REAGENTS ONLY

PREMIUM  
ANALYZER

RELIABLE  
& PRECISE



OUR BESTSELLER  
ONLY BETTER



**PRECISION AND RELIABILITY**  
Perfect CVs, reliability, repeatability and reproducibility  
DESIGNED FOR ALL DEMANDING LABS



**ECONOMY**  
Limited cost per test - low consumption  
+2 reagents only + high stability reagents  
→ a winning situation



**USER FRIENDLY**  
Latest state of the art user-friendly SFRI's software



|                          |                                                                                                                                |                        |                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|
| Parameters               | WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCR, P-LCC |                        |                  |
| Measuring principles     | Impedance technology for blood cell counting and cyanide-free optical detection for hemoglobin                                 |                        |                  |
| Performance              | <b>Parameter</b>                                                                                                               | <b>Linearity Range</b> |                  |
|                          | WBC (10 <sup>9</sup> /L)                                                                                                       | 1.0~10.0               | ≤ 2.0% (7.0~15)  |
|                          |                                                                                                                                | 10.1~99.9              | ≤ 3.5% (4.0~6.9) |
|                          | RBC (10 <sup>12</sup> /L)                                                                                                      | 0.30~1.00              | ≤ 1.5% (3.5~6.5) |
|                          |                                                                                                                                | 1.01~7.00              |                  |
| HGB (g/L)                | 20~70                                                                                                                          | ≤ 1.5% @ (100~180)     |                  |
| PLT (10 <sup>9</sup> /L) | 71~240                                                                                                                         |                        |                  |
|                          | 20~100                                                                                                                         | ≤ 5.0% (100~149)       |                  |
|                          | 101~999                                                                                                                        | ≤ 4.0% (150~500)       |                  |
| Quality control          | Levey Jennings charts and calculation of Mean, SD, CV; up to 9 control files, 31 runs/ file.                                   |                        |                  |
| Throughput               | 60 tests per hour                                                                                                              |                        |                  |
| Sample volume            | Venous                                                                                                                         | ≤ 14 µl                |                  |
|                          | Pre-diluted                                                                                                                    | ≤ 20 µl                |                  |
| Memory storage           | 50 000 patients files - Multiple conditions query available - LIS transfer HL7 protocol                                        |                        |                  |
| Input / Output           | External monitor - RS232 x 1; USB port x 4 ; Ethernet x 1<br>Mouse, keyboard and barcode reader (optional)                     |                        |                  |
| Printout                 | Fast thermal printer, 57.5 mm wide paper, recording width 48 mm<br>Optional external printer, Ink jet or laser                 |                        |                  |
| Display                  | 8" TFT LCD touchscreen, high resolution 800 x 600, true colors                                                                 |                        |                  |
| Interface                | Multilingual Linux® software highly user-friendly & intuitive                                                                  |                        |                  |
| Operating environment    | Temperature                                                                                                                    | 18°C - 30°C            |                  |
|                          | Humidity                                                                                                                       | < 70                   |                  |
|                          | Atmospheric pressure                                                                                                           | 70 - 106 kPa           |                  |
| Power requirements       | A.C. 110 / 220 V ± 10%; 50 - 60 Hz ; Input : ≤ 150VA - Fuse: A.C. 230V; 3.15 A                                                 |                        |                  |
| Dimensions & weight      | 330 (W) x 430 (H) x 380 (D) mm ;<br>23 kg                                                                                      |                        |                  |

|                      | NAME                       | VOLUME | REFERENCE |
|----------------------|----------------------------|--------|-----------|
| REAGENTS             | SFRI DILUENT 3.60          | 20 L   | HSD326    |
|                      | SFRI LYSE 3.60             | 500 mL | HSL306    |
| MAINTENANCE SOLUTION | SFRI CLEAN EZ 3.60         | 60 mL  | HSC306    |
|                      | SFRI CLAIR 3.60            | 60 mL  | HSC106    |
| TYPE                 |                            |        | REFERENCE |
| CONTROLS             | BLOODTROL 16 - 3 TUBES N   |        | R021005   |
|                      | BLOODTROL 16 - 3 TUBES LNH |        | R021001   |
|                      | BLOODTROL 16 - 6 TUBES N   |        | R021002   |
|                      | BLOODTROL 16 - 6 TUBES LNH |        | R021006   |
| CALIBRATOR           | BLOODCAL - 1 x 3.0 mL      |        | R021003   |

# HEMIX 5-60

The reference analyzer  
5-part diff - 60 tests / h

REDUCED  
CONSUMPTION

ONLY **3**  
REAGENTS

DRASTIC  
REDUCTION OF  
USELESS SLIDES

FIT ANY LAB



**PRECISION**  
precise & reliable instrument  
as good results as any bigger analyzer



**MODULARITY & ADAPTABILITY**  
4-in-1 instrument : open/closed tubes  
+ manual & autoloader



**USER - FRIENDLY**  
touchscreen & intuitive software





|                            |                                                                                                                                                                                                                                                                                           |                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Parameters                 | CBC + 5 DIFF mode<br>26 parameters: WBC, LYM#&%, MON #&%, NEU#&%, EOS#&%, BAS#&%, RBC, HGB, HCT, MCV, RDW (sd/cv), MCH, MCHC, PLT, PCT, MPV, PDW (sd/cv), P-LCR, P-LCC ;<br>2 histograms: RBC, PLT ; 2 scattergrams: 4 diff, BASO                                                         |                                                           |
| Measuring principles       | Laser light scatter technology for 5-part WBC differential<br>Impedance method for CBC: WBC(80µm), RBC & PLT (70µm)<br>Light absorbance for HGB measurement: cyanide free method                                                                                                          |                                                           |
| Reagents & sampling system | Samples<br>Volume: 100 µL of whole blood<br>Closed & open tube sampling with optional autosampler<br>Stat mode, specific control materials & calibration                                                                                                                                  | Reagents<br>3 cyanide-free reagents - 1x diluent, 2x lyse |
| Quality control            | Separate QC database, unlimited number of QC files + Levey-Jennings graphs                                                                                                                                                                                                                |                                                           |
| Throughput                 | 60 tests per hour                                                                                                                                                                                                                                                                         |                                                           |
| Optional autosampler       | Capacity: 100 tubes - 10 racks with 10 sample tubes<br>Accept primary tubes, monovette, vacutainer, vacuette<br>Built-in barcode reader / Built-in sampler mixer<br>Cap recognition (only capped tubes are mixed & processed)<br>Dimensions: 300 (W) x 300 (D) x 180 (H) mm Weight: 10 kg |                                                           |
| Display                    | User interface 600 x 800 color graphics LCD, touchscreen 10.4"                                                                                                                                                                                                                            |                                                           |
| Printout                   | External Microsoft Windows®compatible printers                                                                                                                                                                                                                                            |                                                           |
| Memory storage             | 100 000 records                                                                                                                                                                                                                                                                           |                                                           |
| Input / Output             | External keyboard - PS/2 or USB, RS232, USB, Ethernet                                                                                                                                                                                                                                     |                                                           |
| Interface                  | Windows® 8.1 embedded, multilingual, multiuser mode (multi level user modes with individual identification ex: username, password ...), software upgrade via USB port (USB memory stick)                                                                                                  |                                                           |
| Operating environment      | Temperature<br>Relative humidity                                                                                                                                                                                                                                                          | 15°C - 35°C<br>max 80% (non-condensing)                   |
| Power requirements         | A.C. 110 / 220 V ± 10%; 50 - 60 Hz<br>Input power 400 W                                                                                                                                                                                                                                   |                                                           |
| Dimensions & weight        | 400 (W) x 450 (H) x 500 (D) mm ;<br>35 kg                                                                                                                                                                                                                                                 |                                                           |

|                      | NAME                            | VOLUME | REFERENCE |
|----------------------|---------------------------------|--------|-----------|
| REAGENTS             | SFRI DILUENT 5.1                | 20 L   | HSD512    |
|                      | SFRI LYSE 5.1                   | 5 L    | HSL551    |
|                      | SFRI QUENCH 5.1                 | 1 L    | HSL502    |
| MAINTENANCE SOLUTION | SFRI CLAIR 5.1                  | 60 mL  | HSC103    |
|                      | TYPE                            |        | REFERENCE |
| CONTROLS             | BLOODTROL 22 - 3 x 3 TUBES LNH  |        | R024001   |
|                      | BLOODTROL 22 - 12 x 3 TUBES LNH |        | R024002   |
|                      | BLOODTROL 22 - 3 x 3 TUBES N    |        | R024006   |
|                      | BLOODTROL 22 - 6 x 3 TUBES N    |        | R024007   |
| CALIBRATOR           | BLOODCAL - 1 x 3.0 mL           |        | R021003   |

# HEMIX 5-PRIME

SOON Launched end of 2023



LOWER CONSUMPTION  
ON ITS MARKET

19.8  $\mu$ L SAMPLING



XL  
TOUCHSCREEN  
FOR OUR NEWEST  
SOFTWARE

3 REAGENTS ONLY  
ON A 5-PART DIFF



VERY LOW COST PER TEST  
19.8  $\mu$ l sampling only + 3 reagents only  
+ 20-50% less reagents consumption  
→ ECONOMICAL INSTRUMENT



EASY TO MAINTAIN  
clients & service engineer will love it



XL TOUCHSCREEN 14"  
To display all results, alarms, scattergrams  
and kinetics graphs on 1 screen !



|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|----------------------------------|---------------------|-----------------------------------|--------------------|------------------|--------------------|--------------|--|------------------------------------|--------------------|-----|----------------------|--|
| Parameters                         | Whole Blood Mode: WBC, Neu%, Lym%, Mon%, Eos%, Bas%, Neu#, Lym#, Mon#, Eos#, Bas#, RBC, HGB, MCV, MCH, MCHC, RDW-CV, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCC, P-LCR; 4 Research Parameters: ALY%, LIC%, ALY#, LIC#<br>3 Histograms: Baso, RBC, PLT<br>1 Scattergram for WBC Differential                                                                                                                                                                                                                                                                                            |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Measuring principles               | Flow cytometry technology for 5-part WBC differential<br>Impedance method for CBC: WBC, RBC and PLT<br>Coloric method for HGB determination                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Performance                        | <table border="0"> <tr> <td style="text-align: right;"><b>Parameters Linearity</b></td> <td style="text-align: right;"><b>Precision CV%</b></td> </tr> <tr> <td>WBC 1 ~ 300 x 10<sup>9</sup>/L</td> <td>≤ 2.0% (3.5 ~ 15.0)</td> </tr> <tr> <td>RBC 0.3 ~ 7 x 10<sup>12</sup>/L</td> <td>≤ 1.5% (3.5 ~ 6.0)</td> </tr> <tr> <td>HGB 20 ~ 240 g/L</td> <td>≤ 1.5% (110 ~ 180)</td> </tr> <tr> <td>HCT 0 ~ 75 %</td> <td></td> </tr> <tr> <td>PLT 10 ~ 7000 x 10<sup>9</sup>/L</td> <td>≤ 4.0% (100 ~ 500)</td> </tr> <tr> <td>MCV</td> <td>≤ 1.0% (70 ~ 120) fL</td> </tr> </table> | <b>Parameters Linearity</b> | <b>Precision CV%</b> | WBC 1 ~ 300 x 10 <sup>9</sup> /L | ≤ 2.0% (3.5 ~ 15.0) | RBC 0.3 ~ 7 x 10 <sup>12</sup> /L | ≤ 1.5% (3.5 ~ 6.0) | HGB 20 ~ 240 g/L | ≤ 1.5% (110 ~ 180) | HCT 0 ~ 75 % |  | PLT 10 ~ 7000 x 10 <sup>9</sup> /L | ≤ 4.0% (100 ~ 500) | MCV | ≤ 1.0% (70 ~ 120) fL |  |
| <b>Parameters Linearity</b>        | <b>Precision CV%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| WBC 1 ~ 300 x 10 <sup>9</sup> /L   | ≤ 2.0% (3.5 ~ 15.0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| RBC 0.3 ~ 7 x 10 <sup>12</sup> /L  | ≤ 1.5% (3.5 ~ 6.0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| HGB 20 ~ 240 g/L                   | ≤ 1.5% (110 ~ 180)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| HCT 0 ~ 75 %                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| PLT 10 ~ 7000 x 10 <sup>9</sup> /L | ≤ 4.0% (100 ~ 500)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| MCV                                | ≤ 1.0% (70 ~ 120) fL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Quality control                    | Separate QC database, unlimited number of QC files<br>Levey-Jennings + X-B QC program + X-AVG QC + X-AVG R QC                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Throughput                         | 60 tests per hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Sample volume                      | Whole blood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 19.8 µL                     |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
|                                    | Capillary & Pre-diluted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 26 µL                       |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Memory storage                     | + 100 000 records including numeric and graphs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Input / Output                     | 4 x USB - Bidirectionnal LIS via LAN port support HL7 protocol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Printout                           | External laser / InkJet printer compatible printers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Display                            | 8" LCD screen, high resolution 800 x 600, colorful - soon touchscreen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Interface                          | 14" full color touchscreen supporting a 100% SFRI's software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Operating environment              | Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15°C - 30°C                 |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
|                                    | Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | < 85% (non-condensing)      |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
|                                    | Atmospheric pressure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 70 - 106 kPa                |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Power requirements                 | A.C. 100 / 220 V ± 10%; 50 - 60 Hz ; Input power 300 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |
| Dimensions & weight                | 375 (W) x 480 (H) x 517 (D) mm ;<br>36 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                      |                                  |                     |                                   |                    |                  |                    |              |  |                                    |                    |     |                      |  |

|                      | NAME                            | VOLUME | REFERENCE |
|----------------------|---------------------------------|--------|-----------|
| REAGENTS             | SOON IN 2023                    |        |           |
| MAINTENANCE SOLUTION |                                 |        |           |
|                      | TYPE                            |        | REFERENCE |
| CONTROLS             | BLOODTROL 22 - 3 x 3 TUBES LNH  |        | R024001   |
|                      | BLOODTROL 22 - 12 x 3 TUBES LNH |        | R024002   |
|                      | BLOODTROL 22 - 3 x 3 TUBES N    |        | R024006   |
|                      | BLOODTROL 22 - 6 x 3 TUBES N    |        | R024007   |
| CALIBRATOR           | BLOODCAL - 1 x 3.0 mL           |        | R021003   |

# ESR 3000

Erythrocyte Sedimentation analyzer  
Fully automatic

RANDOM MODE  
FOR A ROUTINE  
WITH NO RESTRICTION

FAST, SIMPLE  
& EFFICIENT



COST & TIME  
SAVING



**AUTOMATION**  
from manual to automatic without hesitation



**ECONOMIC**  
easy, compact, just to make your routine lighter



**FAST & RELIABLE**  
reading time 30 min & 60 min  
equivalent to the 1 & 2 h Westergren method



|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Principles                       | Photometric infrared reading principle<br>Automatic measurement of RBC level every 3 min                  |
| Measuring mode                   | 30 min or 60 min correlated modified Westergren method                                                    |
| Capacity                         | 30 samples processed simultaneously with random access                                                    |
| Throughput                       | 60 tests per hour (30 minutes mode)                                                                       |
| Accuracy rate                    | < 0.2 mm                                                                                                  |
| Temperature accuracy             | < 0.3° C                                                                                                  |
| Reproducibility                  | < 3%; ± 2 mm                                                                                              |
| Automatic temperature correction | ESR results can be automatically adjusted to 18°C                                                         |
| Quality Control                  | Normal and pathological controls; 9 ml vials                                                              |
| Memory Storage                   | 200 results per day                                                                                       |
| SFRI Vacuum Glass Tubes          | Total sample volume 1.28 ml<br>Contains sodium citrate solution 0.32 ml<br>Tubes complete with labels     |
| Input/output                     | Barcode interface (optional barcode)<br>Parallel printer interface<br>RS232 port for mono-directional LIS |
| Printout                         | Fast thermal printer, 57.5 mm wide paper,<br>recording width 48 mm                                        |
| Display                          | 5" LCD touch screen<br>Monochrome display                                                                 |
| Operating environment            | Temperature 10°C – 40°C<br>Humidity < 85% (max humidity)                                                  |
| Power requirements               | A.C. 110/220 V ±10%; 50 – 60 Hz<br>Consumption: 50 W                                                      |
| Dimensions                       | 300(W) x 180(H) x 400(D) mm                                                                               |
| Weight                           | 10 kg                                                                                                     |

|                 | NAME               | TYPE                     | QUANTITY / VOLUME | REFERENCE |          |         |
|-----------------|--------------------|--------------------------|-------------------|-----------|----------|---------|
| <b>TUBES</b>    | ESR CITRATED TUBES | VACUUM GLASS TUBES       | 1 000 units       | C030003   |          |         |
| <b>CONTROLS</b> | NAME               | LEVELS                   | QUANTITY          | REF       | CVS*     | OVS*    |
|                 | SEDROL             | NORMAL<br>& PATHOLOGICAL | 2 x 9 ml vials    | R030001   | 115 days | 28 days |
|                 |                    |                          | 4 x 9 ml vials    | R030002   |          |         |

\* close / open vial stability

# COMPATIBLE REAGENTS

40 years experience  
in development and  
manufacturing

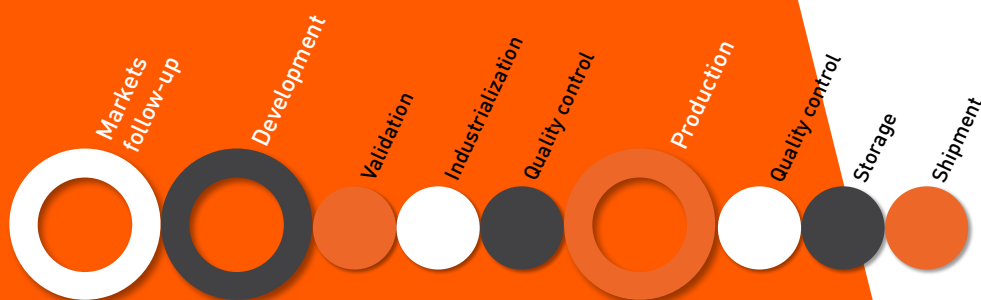


MORE THAN 100 REFERENCES

PRIORITY:

excellent correlation with "original" reagents

SFR1 PRODUCT:  
LIFE CYCLE



## ABBOTT®

|                               | TYPE                          | NAME                   | REFERENCE | VOLUME |
|-------------------------------|-------------------------------|------------------------|-----------|--------|
| CD 1600                       | DILUENT                       | ISOTONIC SOLUTION LMG  | HAD320    | 20 L   |
| CD 1700                       | LYSE                          | LYSE LMG               | HAL302    | 2 L    |
| CD 1800                       | CLEANER                       | ISOTONIC DETERGENT LMG | HAG320    | 20 L   |
| CD 2000                       |                               |                        |           |        |
| CD 3000<br>CD 3500<br>CD 3700 | DILUENT                       | DILUTON CD 3000        | HAD520    | 20 L   |
|                               | LYSE                          | LYSOGLOBINE CD 3000    | HAL510    | 10 L   |
|                               | CLEANER                       | DILUCLAIR CD 3000      | HAC512    | 125 mL |
|                               | SHEATH                        | SHEATH CD 3000         | HAM510    | 10 L   |
|                               | CLEANER FOR<br>CD 3500 / 3700 | ISOTONIC DETERGENT LMG | HAG320    | 20 L   |
| CD 3200<br>CD RUBY            | DILUENT                       | DILUTON CD 3200        | HAD521    | 20 L   |
|                               | LYSE                          | LYSOGLOBINE CD 3200    | HAL506    | 5 L    |
|                               | LYSE                          | LYSE HGB CD 3200       | HAL505    | 5 L    |

## BECKMAN COULTER®

|                | TYPE    | NAME           | REFERENCE | VOLUME |
|----------------|---------|----------------|-----------|--------|
| MD II          | DILUENT | DILUTON 3      | HCD320    | 20L    |
| ACT 3 DIFF     | LYSE    | LYSOGLOBINE 3D | HCL302    | 1 L    |
| ONYX / T SERIE | CLEANER | DILUCLAIR      | HCC302    | 5 L    |
| STKS           | DILUENT | DILUTON 3      | HCD320    | 20 L   |
| MAXM           | LYSE    | LYSOGLOBINE 3D | HCL302    | 1 L    |
| GENS           | CLEANER | DILUCLAIR      | HCC302    | 5 L    |
| HMX            |         |                |           |        |

## DIATRON®

|               | TYPE    | NAME              | REFERENCE | VOLUME |
|---------------|---------|-------------------|-----------|--------|
| ABACUS 3 DIFF | DILUENT | DILUTON 3         | HCD320    | 20 L   |
|               | LYSE    | LYSE REAGENT AB   | HDIL301   | 1 L    |
|               | CLEANER | ENZYMATIC CLEANER | HDIC301   | 1 L    |
|               |         |                   | HDIC305   | 5 L    |
| ABACUS 5 DIFF | DILUENT | DILUTON 5D        | HDID520   | 20 L   |
|               | QUENCH  | DIFF 5D           | HDIL502   | 1 L    |
|               | CLEANER | HEMACLAIR 5D      | HDIC501   | 60 mL  |
|               | LYSE    | LYSOGLOBINE 5D    | HDIL501   | 5 L    |

## HORIBA MEDICAL® (ABX)®

|                                        | TYPE                                                  | NAME             | REFERENCE | VOLUME |
|----------------------------------------|-------------------------------------------------------|------------------|-----------|--------|
| MICROS 8                               | Diluent, lyse & cleaner available upon simple request |                  |           |        |
| MICROS 18                              | DILUENT                                               | DILUTON LMG      | HXD320    | 20 L   |
|                                        |                                                       |                  | HXD310    | 10 L   |
|                                        | LYSE                                                  | LYSOGLOBINE LMG2 | HXL321    | 1 L    |
|                                        | CLEANER                                               | DILUCLAIR A      | HXC302    | 1 L    |
| HEMACLAIR                              |                                                       |                  | HXC101    | 500 mL |
| PENTRA 60<br>PENTRA 80<br>PENTRA 80 XL | DILUENT                                               | DILUTON 5A       | HXD520    | 20 L   |
|                                        | LYSE                                                  | LYSOGLOBINE Hb   | HXL521    | 500 mL |
|                                        |                                                       | LYSOGLOBINE Eo   | HXL522    | 1 L    |
|                                        |                                                       |                  | HXL524    | 500 mL |
|                                        | CLEANER                                               | DILUCLAIR A      | HXC302    | 1 L    |



## MEDONIC®

|           | TYPE    | NAME           | REFERENCE | VOLUME |
|-----------|---------|----------------|-----------|--------|
| CA 530    | DILUENT | DILUTON 3M     | HMD320    | 20L    |
| CA 570    | LYSE    | LYSOGLOBINE 3M | HML305    | 5 L    |
| M16 / M20 |         |                |           |        |
| M-SERIES  | CLEANER | DILUTERGE M    | HMG305    | 5 L    |

## MINDRAY®

|         | TYPE    | NAME           | REFERENCE | VOLUME |
|---------|---------|----------------|-----------|--------|
| BC 2300 | DILUENT | DILUTON 3I     | HID320    | 20 L   |
| BC 2800 |         |                |           |        |
| BC 3000 | LYSE    | LYSOGLOBINE 3I | HIL301    | 500 mL |
| BC 3200 |         |                |           |        |
| BC 3600 |         | DILUTERGE 3I   | HIG320    | 20 L   |
| BC 5100 |         |                |           |        |
| BC 5180 | CLEANER | DILUCLAIR I    | HIC301    | 60 mL  |
| BC 5300 |         |                |           |        |
| BC 5380 |         | HEMACLAIR I    | HIC101    | 60 mL  |

## NIHON KOHDEN®

|               | TYPE    | NAME                | REFERENCE | VOLUME |
|---------------|---------|---------------------|-----------|--------|
|               | DILUENT | DILUANT LMG         | HNKD320   | 20 L   |
| MEK 6318      | LYSE    | LYSING REAGENT LMG  | HNKL301   | 1 L    |
| MEK 6400      |         |                     |           |        |
|               | CLEANER | ENZYMATIC CLEANER   | HNKG005   | 5 L    |
|               |         | CHLORINATED CLEANER | HNKG301   | 1 L    |
|               | DILUENT | DILUANT LMG         | HNKD320   | 20 L   |
|               |         |                     |           |        |
|               | LYSE    | LYSING REAGENT LMG  | HNKL301   | 1 L    |
| CELTAC E 7222 |         | LYSOGLOBINE 5NK     | HNKL501   | 500 mL |
| CELTAC F 8222 |         |                     |           |        |
|               | CLEANER | ENZYMATIC CLEANER   | HNKG005   | 5 L    |
|               |         | CHLORINATED CLEANER | HNKG301   | 1 L    |

## ORPHÉE®

|           | TYPE    | NAME           | REFERENCE | VOLUME |
|-----------|---------|----------------|-----------|--------|
| MYTHIC 18 | DILUENT | DILUTON 30     | HOD320    | 20L    |
|           | LYSE    | LYSOGLOBINE 30 | HOL301    | 1 L    |
|           | CLEANER | DILUCLAIR O    | HOC301    | 1 L    |

## PROKAN®

|           | TYPE                 | NAME           | REFERENCE | VOLUME |
|-----------|----------------------|----------------|-----------|--------|
| PE-SERIES | DILUENT              | DILUTON PE     | HKD320    | 20 L   |
|           | LYSE                 | LYSOGLOBINE PE | HKL301    | 500 mL |
|           | CLEANER              | DILUTERGE PE   | HKG305    | 5 L    |
|           | STRONG CLEANER       | HEMACLAIR PE   | HKC101    | 60 mL  |
|           | CONCENTRATED CLEANER | DILUCLAIR PE   | HKC301    | 60 mL  |

## RAYTO®

|          | TYPE    | NAME           | REFERENCE | VOLUME |
|----------|---------|----------------|-----------|--------|
| RT-7200  | DILUENT | DILUTON 3R     | HRD320    | 20 L   |
| RT-7600  | LYSE    | LYSOGLOBINE 3R | HRL301    | 500 mL |
| RT-7600S | CLEANER | DILUCLAIR 3R   | HRC301    | 1 L    |

## SIEMENS®

|               | TYPE                                                             | NAME          | REFERENCE | VOLUME   |
|---------------|------------------------------------------------------------------|---------------|-----------|----------|
| ADVIA 60 & 70 | Diluent, Lyse, Cleaner & Sheath -> Available upon simple request |               |           |          |
| ADVIA 120     | REAGENT PEROX 1                                                  | SF OXYDIFF 1  | HTAD101   | 650 mL   |
|               | REAGENT PEROX 2                                                  | SF OXYDIFF 2  | HTAD102   | 575 mL   |
|               | REAGENT PEROX 3                                                  | SF OXYDIFF 3  | HTAD103   | 590 mL   |
|               | PEROX SHEATH                                                     | SF OXYDIFF SH | HTAD301   | 2.725 mL |
|               | RBC Plt REAGENT                                                  | SF DIL R      | HTAC301   | 2.7 L    |
|               | Hgb REAGENT                                                      | SF LYSE H     | HTAC201   | 1.1 L    |
|               | BASO REAGENT                                                     | SF LYSE B     | HTAC202   | 1.1 L    |
|               | SHEATH RINSE                                                     | SF RINSE SH   | HTAM520   | 20 L     |
|               | RETIC REAGENT                                                    | SF RETIC SH   | HTAR101   | 820 mL   |
|               | EZ CLEAN                                                         | SF CLEAN      | HTAG101   | 810 mL   |
| DEFOAMER      | Available upon request                                           |               |           |          |

## SWELAB®

|        | TYPE      | NAME               | REFERENCE | VOLUME |
|--------|-----------|--------------------|-----------|--------|
| AC 900 | DILUENT   | DILUANT            | SWD320    | 20 L   |
| AC 920 | LYSE      | LYSING REAGENT LMG | HSWL305   | 5 L    |
| AC 970 | DETERGENT | DETERGENT          | HLWG305   | 5 L    |

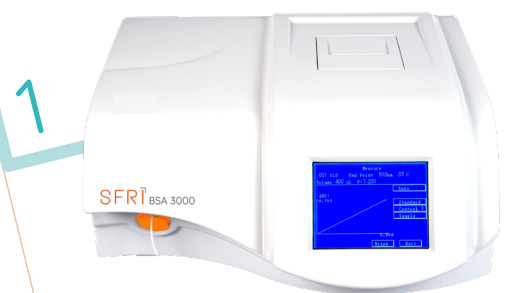
## SYSMEX®

|                           | TYPE    | NAME              | REFERENCE | VOLUME |
|---------------------------|---------|-------------------|-----------|--------|
| K 800<br>K 1000<br>K 4500 | DILUENT | DILUENT ST        | HYD001    | 20 L   |
|                           | LYSE    | LYSOGLOBINE 3ST   | HYL305    | 500 mL |
|                           |         |                   | HYL350    | 5 L    |
|                           |         | LYSOGLOBINE ST Hb | HYL405    | 500 mL |
|                           |         |                   | HYL450    | 5 L    |
|                           | CLEANER | HEMACLAIR ST      | HYC050    | 60 mL  |
| KX 21<br>KX 21N           | DILUENT | DILUENT ST        | HYD001    | 20 L   |
|                           | LYSE    | LYSOGLOBINE K     | HYL311    | 500 mL |
|                           | CLEANER | HEMACLAIR ST      | HYC050    | 60 mL  |

# BIOCHEMISTRY

# BIOCHEMISTRY

- 1. BSA 3000
- 2. IONIX
- 3. ISE SERIES
- 4. COMPATIBLE REAGENTS



# BSA 3000

Robust & reliable spectrophotometer  
Programmable and customizable

TOUCHSCREEN OPERATIONS

INTUITIVE SOFTWARE  
EASY AND FULLY  
PROGRAMMABLE



COST & TIME  
SAVING



**ROBUST**  
no breakdown, easy maintenance, operational analyzer



**ECONOMIC**  
open instrument: use any reagent you want



**ADAPTABLE**  
full range of filters, programs, measuring methods, ...

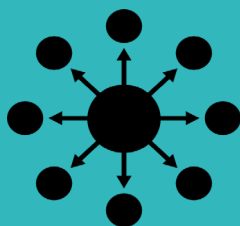


|                       |                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring method      | End point, Kinetic, two point Kinetic, Fixed time, Absorbance, Turbidimetry<br>Reagent blank, Sample blank<br>Monochromatic & bichromatic method                                   |
| Light source          | Quartz halogen lamp 12V / 20W<br>Stray light: < 1.0% at 340 nm                                                                                                                     |
| Optics                | Filter wheel can hold up to 8 filters<br>7 standard filters: 340 nm, 405 nm, 492 nm, 510 nm,<br>546 nm, 578 nm, and 630 nm<br>1 free position for extra filter<br>Bandwidth < 8 nm |
| Photometric range     | Measuring range: 0.0000 to 3.0000 ABS<br>Resolution: 0.0001 ABS<br>Drift: 0.002 ABS                                                                                                |
| Flowcell              | Stainless steel with quartz window<br>Optical path: 10 mm<br>Measuring volume: 32 $\mu$ l<br>Programmable aspiration volume: 200 - 2000 $\mu$ l                                    |
| Calibration           | Linear<br>Non linear up to 6 points<br>Factor                                                                                                                                      |
| Memory storage        | 3000 results per day available in memory at any time and transferable via LIS                                                                                                      |
| Thermostatic control  | 3000 results per day available in memory at any time and transferable via LIS                                                                                                      |
| Input / output        | RS232 port for mono-directional LIS                                                                                                                                                |
| Printout              | Built-in thermal printer, 57.5 mm wide paper,<br>recording width 48 mm                                                                                                             |
| Display               | 6" LCD touch screen<br>Mono-color display                                                                                                                                          |
| Operating environment | Temperature 15°C - 30°C<br>Humidity 20% - 80% (max humidity)                                                                                                                       |
| Power requirements    | A.C. 110/220 V $\pm$ 10%; 50 - 60 Hz                                                                                                                                               |
| Dimensions & weight   | 445(W) x 190(H) x 420(D) mm                      9kg                                                                                                                               |

# IONIX

The newest, greatest ion analyzer

Create your own IONIX from scratch!



100% MODULAR INSTRUMENT  
SUITS ANY LAB

100% ACCEPTED BY LABORATORIES  
NEWEST ANALYZER ON THE MARKET  
MEASURE OF IONIZED CALCIUM  
FULL TRACEABILITY

## STANDARD MODEL

- 1 position sample rack
- MCI electrodes : Na<sup>+</sup> & K<sup>+</sup>
- Test on primary tubes
- High ended C++ object software
- Large color touch screen
- Supports LIS
- Capacitive needle + independant washing system
- Secure internal sampling
- Complete quality control (100 results for each of the 6 levels + Levey Jenning graphs)
- Integrated thermal printer
- Full traceability
- Closed reagent system with dongles

## OPTIONS

### AUTOMATION

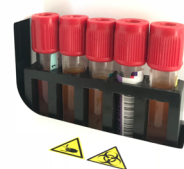
- 5 positions sample rack
- Autoloader 4 x 5 positions
- Real continuous loading

### MCI ELECTRODES

- Cl<sup>-</sup> electrode
- Ca<sup>2+</sup> electrode
- pH electrode
- Li<sup>+</sup> electrode

### MODULES

- Module TCO<sub>2</sub>
- Internal sample & reagent barcode reader
- 12V battery connexion capability



TEST ON PRIMARY TUBES





# ISE SERIES

ION analyzers

Adapted to any labs need

QUALITATIVE  
INSTRUMENT RANGE

FULL AUTOMATION  
AUTOSAMPLER



EASY TO MANAGE  
THANKS TO THE  
REAGENT PACK

## Models

2000 Na<sup>+</sup>, K<sup>+</sup>

3000 Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>

4000 Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, TCO<sub>2</sub>, A.G.

4500 Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, Li<sup>+</sup>

5000 Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>, TCa<sup>2+</sup>, pH

6000 Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>, TCa<sup>2+</sup>, TCO<sub>2</sub>, pH, A.G.

## H.S.S. Electrodes

high Specificity & Sensitivity



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-------------------------------|--------|---------|--------|-------------------------------|--------|
| Principles                    | Ion Selective Electrode direct measurement<br>Manometric method for TCO <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Sample                        | Serum, plasma, urine and whole blood 150 µL<br>Specific modes for urine and lipemic serum                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Throughput                    | 60 tests / hour - without TCO <sub>2</sub> ; 45 tests / hour - with TCO <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Detection range               | <p><b>Whole blood, serum &amp; plasma</b></p> <p>K<sup>+</sup> 0.5 - 15.0 mmol / L<br/>Na<sup>+</sup> 20 - 200 mmol / L<br/>Cl<sup>-</sup> 20 - 200 mmol / L<br/>Li<sup>+</sup> 0.2 - 3.0 mmol / L<br/>Ca<sup>2+</sup> 0.1 - 5.0 mmol / L<br/>pH 4.0 - 9.0 pH<br/>TCO<sub>2</sub> 6.0 - 50.0 mmol / L</p> <p><b>Urine</b></p> <p>K<sup>+</sup> 50 - 250 mmol / L (pre-diluted)<br/>Na<sup>+</sup> 10 - 350 mmol / L<br/>Cl<sup>-</sup> 10 - 350 mmol / L</p>                                                                                                  |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Accuracy & reproducibility    | <table> <tr> <td>Accuracy</td> <td>Reproducibility</td> </tr> <tr> <td>K<sup>+</sup> ±0.2 mmol/L</td> <td>&lt; 1.0%</td> </tr> <tr> <td>Na<sup>+</sup> ±2.0 mmol/L</td> <td>&lt; 1.0%</td> </tr> <tr> <td>Cl<sup>-</sup> ±2.5 mmol/L</td> <td>&lt; 1.0%</td> </tr> <tr> <td>Li<sup>+</sup> ±0.1 mmol/L</td> <td>&lt; 3.0%</td> </tr> <tr> <td>Ca<sup>2+</sup> ±0.1 mmol/L*</td> <td>&lt; 2.0%</td> </tr> <tr> <td>pH ±0.1</td> <td>&lt; 1.0%</td> </tr> <tr> <td>TCO<sub>2</sub> ±2.0 mmol/L*</td> <td>&lt; 3.0%</td> </tr> </table> <p>* for plasma only</p> | Accuracy | Reproducibility | K <sup>+</sup> ±0.2 mmol/L | < 1.0% | Na <sup>+</sup> ±2.0 mmol/L | < 1.0% | Cl <sup>-</sup> ±2.5 mmol/L | < 1.0% | Li <sup>+</sup> ±0.1 mmol/L | < 3.0% | Ca <sup>2+</sup> ±0.1 mmol/L* | < 2.0% | pH ±0.1 | < 1.0% | TCO <sub>2</sub> ±2.0 mmol/L* | < 3.0% |
| Accuracy                      | Reproducibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| K <sup>+</sup> ±0.2 mmol/L    | < 1.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Na <sup>+</sup> ±2.0 mmol/L   | < 1.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Cl <sup>-</sup> ±2.5 mmol/L   | < 1.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Li <sup>+</sup> ±0.1 mmol/L   | < 3.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Ca <sup>2+</sup> ±0.1 mmol/L* | < 2.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| pH ±0.1                       | < 1.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| TCO <sub>2</sub> ±2.0 mmol/L* | < 3.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Quality control               | Two levels with optional autosampler ; one level without autosampler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Calibration                   | Automatic: 2 points every 4h or on demande                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Memory storage                | 256 patients files x 5 parameters each<br>Transfer LIS mono-directional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Reagent pack                  | Shelf life: 12 to 18 months<br>Standard Pack: Cal A, Cal B & waste<br>Pack for ISE 4000 & 6000: Cal A, Cal B TCO <sub>2</sub> reagent                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Electrodes                    | Long life: up to 5 years (6 months for Ca <sup>2+</sup> )<br>12 months warranty (6 months warranty for Ca <sup>2+</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Input / output                | Barcode interface (optional barcode) ; RS232 port for mono-directional LIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Printout                      | Fast thermal printer, 57.5 mm wide paper, recording width 48 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Display                       | 5" LCD touch screen with monochrome display ; multilingual interface: english, french, spanish & italian                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Operating environment         | Temperature 15°C - 32°C<br>Humidity < 85% (max humidity)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Power requirements            | A.C. 110/220 V ± 10%; 50 - 60 Hz<br>Power: < 60 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |
| Dimensions & weight           | 390 (W) x 445(H) x 340(D) mm<br>Main unit: 10kg<br>Autosampler: 1.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                            |        |                             |        |                             |        |                             |        |                               |        |         |        |                               |        |

# COMPATIBLE REAGENTS

The economic & qualitative solution for labs

ELECTROLYTES  
PROTEINS  
ENZYMES  
SUBSTRATES

QUALITATIVE RANGE



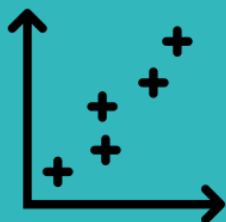
READY TO USE



A complete range of generic liquid ready-to-use reagents

high quality, stable and cost effective

excellent correlation with original products  
barcoded



# A COMPREHENSIVE Biochemistry range for all labs

| Electrolytes panel                 | Hepatic (liver profile)          | Comprehensive metabolic panel      | Basic metabolic panel              | Lipid profile     |
|------------------------------------|----------------------------------|------------------------------------|------------------------------------|-------------------|
| Sodium (Na)                        | Albumine                         | Sodium (Na)                        | Sodium (Na)                        | Total Cholesterol |
| Potassium (K)                      | Total protein                    | Potassium (K)                      | Potassium (K)                      | LDL Cholesterol   |
| Chloride (Cl)                      | Alkaline Phosphatase Alanine     | Chloride (Cl)                      | Chloride (Cl)                      | HDL Cholesterol   |
| Carbone Dioxide (CO <sub>2</sub> ) | Aminotransferase (ALT)           | Carbone Dioxide (CO <sub>2</sub> ) | Carbone Dioxide (CO <sub>2</sub> ) | Triglycerides     |
|                                    | Aspartate Aminotransferase (AST) | Glucose                            | Glucose                            |                   |
|                                    | Total Bilirubin                  | Creatinine                         | Creatinine                         |                   |
|                                    | Direct Bilirubin                 | Urea                               | Urea (BUN)*                        |                   |
|                                    |                                  | Calcium                            |                                    |                   |
|                                    |                                  | Total Protein                      |                                    |                   |
|                                    |                                  | Albumine                           |                                    |                   |
|                                    |                                  | Alanine Aminotransferase (ALT)     | * BUN: Blood Urea Nitrogen         |                   |
|                                    |                                  | Aspartate Aminotransferase (AST)   |                                    |                   |
|                                    |                                  | Alkaline Phosphatase (ALP)         |                                    |                   |
|                                    |                                  | Total Bilirubin                    |                                    |                   |

## UNIVERSAL REAGENTS RANGE

|                                                          | Reference          | Name                        | Packaging                                | Method                       |
|----------------------------------------------------------|--------------------|-----------------------------|------------------------------------------|------------------------------|
| E<br>L<br>E<br>C<br>T<br>R<br>O<br>L<br>Y<br>T<br>E<br>S | G11BIC001          | Bicarbonate                 | 5 x 20 mL + CAL 1 x 2 mL                 | Enzymatic                    |
|                                                          | G11CAL001          | Calcium ASX                 | 6 x 50 mL                                | Arsenazo III                 |
|                                                          | G11CAL002          | Calcium ASX                 | 6 x 100 mL                               | Arsenazo III                 |
|                                                          | G11CAC002          | Calcium OCP                 | 6 x 100 mL                               | O-Cresolphthalein complexone |
|                                                          | G11CAC001          | Calcium OCP                 | 6 x 50 mL                                | O-Cresolphthalein complexone |
|                                                          | G11CHL001          | Chloride                    | 6 x 30 mL                                | Mercurious thiocyanate       |
|                                                          | G11CHL002          | Chloride                    | 6 x 50 mL                                | Mercurious thiocyanate       |
|                                                          | G11FER003          | Iron                        | R1 5 x 80 mL / R2 1 x 100 mL             | Ferene                       |
|                                                          | G11FER001          | Iron                        | R1 5 x 40 mL / R2 1 x 50 mL              | Ferene                       |
|                                                          | G11FER002          | Iron                        | R1 6 x 40 mL + R2 6 x 10 mL              | Ferene                       |
|                                                          | G11MAG002          | Magnesium                   | 6 x 50 mL                                | Xylidiyl Blue                |
|                                                          | G11MAG001          | Magnesium                   | 6 x 30 mL                                | Xylidiyl Blue                |
|                                                          | G11PHO001          | Phosphorous                 | 6 x 50 mL                                | Blue molybdate               |
| E<br>N<br>Z<br>Y<br>M<br>E<br>S                          | G11PAL001          | ALP                         | R1 5 x 40 mL / R2 1 x 50 mL              | DEA DGKC                     |
|                                                          | G11PAL002          | ALP                         | R1 6 x 40 mL + R2 6 x 10 mL              | DEA DGKC                     |
|                                                          | G11GPT002          | ALT-GPT                     | R1 5 x 80 mL / R2 1 x 100 mL             | Kinetic UV Optimized IFCC    |
|                                                          | G11GPT001          | ALT-GPT                     | R1 5 x 40 mL / R2 1 x 50 mL              | Kinetic UV Optimized IFCC    |
|                                                          | G11AMY001          | Amylase                     | 10 x 10 mL                               | CNPG3                        |
|                                                          | G11AMY002          | Amylase                     | 4 x 30 mL                                | CNPG3                        |
|                                                          | G11GOT002          | AST-GOT                     | R1 5 x 80 mL / R2 1 x 100 mL             | Kinetic UV Optimized IFCC    |
|                                                          | G11GOT001          | AST-GOT                     | R1 5 x 40 mL / R2 1 x 50 mL              | Kinetic UV Optimized IFCC    |
|                                                          | G11CHS001          | Cholinesterase              | R1 4 x 24 mL / R2 1 x 24 mL              | Hexacyanoferrate III         |
|                                                          | G11CKM001          | CK MB                       | R1 1 x 24 mL + R2 1 x 6 mL               | Enzymatic                    |
|                                                          | G11CPK002          | CK NAC                      | R1 5 x 40 mL / R2 1 x 50 mL              | Kinetic UV Optimized IFCC    |
|                                                          | G11CPK001          | CK NAC                      | R1 4x 24 mL / R2 1 x 24 mL               | Kinetic UV Optimized IFCC    |
|                                                          | G11GGT001          | G-GT                        | R1 5 x 40 mL / R2 1 x 50 mL              | SZASZ                        |
|                                                          | G11GGT002          | G-GT                        | R1 6 x 40 mL + R2 6 x 10 mL              | SZASZ                        |
|                                                          | G11LDH002          | LDH                         | R1 5 x 40 mL / R2 1 x 50 mL              | Kinetic Optimized SCE        |
|                                                          | G11LDH001          | LDH                         | R1 4 x 24 mL / R2 1 x 24 mL              | Kinetic Optimized SCE        |
|                                                          | G11LIP001          | LIPASE                      | R1 4 x 10 mL + R2 1 x 8 mL +STD 1 x 1 mL | Colorimetric                 |
| G11PAM001                                                | Pancreatic amylase | R1 1 x 40 mL + R2 1 x 10 mL | EPS                                      |                              |

|                                                                                  | Reference        | Name                   | Packaging                                   | Method                   |
|----------------------------------------------------------------------------------|------------------|------------------------|---------------------------------------------|--------------------------|
| S<br>P<br>E<br>C<br>I<br>F<br>I<br>C<br><br>P<br>R<br>O<br>T<br>E<br>I<br>N<br>S | G11APA001        | APO A1                 | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11APB001        | APO B                  | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11ASL001        | ASO                    | R1 1 x 40 mL + R2 1 x 10 mL + CAL 1 x 1 mL  | Turbidimetric            |
|                                                                                  | G11BMI001        | β2 Microglobulin       | R1 1 x 45 mL + R2 1 x 5 mL                  | Turbidimetric            |
|                                                                                  | G11CRP001        | CRP                    | R1 1 x 40 mL + R2 1 x 10 mL + STD 1 x 1 mL  | Turbidimetric            |
|                                                                                  | G11CC3001        | C3                     | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11CC4001        | C4                     | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11FIN001        | Ferritin               | R1 2 x 50 mL + R2 3 x 7 mL                  | Turbidimetric            |
|                                                                                  | G11IGA001        | IgA                    | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11IGE001        | IgE                    | R1 1 x 20 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11IGG001        | IgG                    | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11IGM001        | IgM                    | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
|                                                                                  | G11LPA001        | LP (A)                 | R1 1 x 20 mL + R2 1 x 4 mL                  | Turbidimetric            |
|                                                                                  | G11MIC001        | MicroAlbumin           | R1 1 x 40 mL + R2 1 x 10 mL + STD 1 x 1 mL  | Turbidimetric            |
|                                                                                  | G11RHF001        | RF                     | R1 1 x 80 mL + R2 1 x 20 mL + CAL 1 x 1mL   | Turbidimetric            |
|                                                                                  | G11TRF001        | Transferrin            | R1 1 x 40 mL + R2 1 x 10 mL                 | Turbidimetric            |
| S<br>U<br>B<br>S<br>T<br>R<br>A<br>T<br>E<br>S                                   | G11ALB002        | Albumin                | 6 x 100 mL                                  | BCG Bromocresol          |
|                                                                                  | G11ALB001        | Albumin                | 6x 50 mL                                    | BCG Bromocresol          |
|                                                                                  | G11BIA001        | Bile acids             | R1 1 x 30 mL + R2 1 x 10 mL + CAL 1 x 2 mL  | Enzymatic                |
|                                                                                  | G11CHO001        | Cholesterol            | 6 x 100 mL                                  | CHOD-PAP                 |
|                                                                                  | G11CRE002        | Creatinine             | R1 3 x 100 mL / R2 3 x 100 mL               | JAFFÉ                    |
|                                                                                  | G11CRE001        | Creatinine             | R1 3 x 50 mL / R2 3 x 50 mL                 | JAFFÉ                    |
|                                                                                  | G11BID002        | D Bilirubin            | R1 5 x 80 mL / R2 1 x 100 mL                | Jendrassik Grof Modified |
|                                                                                  | G11BID001        | D Bilirubin            | R1 5 x 40 mL / R2 1 x 50 mL                 | Jendrassik Grof Modified |
|                                                                                  | G11FRU001        | Fructosamin            | R1 6 x 30 mL                                | NBT                      |
|                                                                                  | G11GLU001        | Glucose                | 6 x 100 mL                                  | GOD-POD                  |
|                                                                                  | G11HDL001        | HDL Cholesterol        | R1 1 x 60 mL / R2 1 x 20 mL                 | Clearance                |
|                                                                                  | G11LAC001        | Lactate                | 5 x 10 mL LYO + 1 x 55 mL BUFFER + STD 5 mL | Enzymatic LO-POD         |
|                                                                                  | G11LDL001        | LDL Direct Cholesterol | R1 1 x 60 mL / R2 1 x 20 mL                 | Clearance                |
|                                                                                  | G11BIT002        | T Bilirubin            | R1 5 x 80 mL / R2 1 x 100 mL                | Jendrassik Grof Modified |
|                                                                                  | G11BIT001        | T Bilirubin            | R1 5 x 40 mL / R2 1 x 50 mL                 | Jendrassik Grof Modified |
|                                                                                  | G11PRT002        | Total Proteins         | 6 x 100 mL                                  | Biuret                   |
|                                                                                  | G11PRT001        | Total Proteins         | 6 x 50 mL                                   | Biuret                   |
|                                                                                  | G11TRG001        | Triglycerides          | 6 x 50 mL                                   | GPO-PAP                  |
|                                                                                  | G11TRG002        | Triglycerides          | 6 x 100 mL                                  | GPO-PAP                  |
|                                                                                  | G11URE002        | BUN - Urea             | R1 5 x 80 mL / R2 1 x 100 mL                | Urease-GLDH              |
|                                                                                  | G11URE001        | BUN - Urea             | R1 5 x 40 mL / R2 1 x 50 mL                 | Urease-GLDH              |
|                                                                                  | G11ACM001        | Uric Acid mono         | 6 x 50 mL                                   | POD-PAP                  |
|                                                                                  | G11ACM002        | Uric Acid mono         | 6 x 100 mL                                  | POD-PAP                  |
| G11PTU001                                                                        | Urinary proteins | 6 x 30 mL + STD        | Pyrogallol Red                              |                          |
| G11PTU002                                                                        | Urinary proteins | 6 x 50 mL+ STD         | Pyrogallol Red                              |                          |

## HITACHI COMPATIBLE REAGENTS RANGE

|                   | Reference | Name                                      | Packaging                                  | Method                    |
|-------------------|-----------|-------------------------------------------|--------------------------------------------|---------------------------|
| ELECTROLYTES      | G12CAL001 | Calcium ASX                               | 9 x 70 mL                                  | Arsenazo III              |
|                   | G12CAL002 | Calcium ASX                               | 12 x 20 mL                                 | Arsenazo III              |
|                   | G12CHL001 | Chloride                                  | 10 x 20 mL                                 | Mercurious thiocyanate    |
|                   | G12FER001 | Iron                                      | R1 6 x 40 mL+ R2 6 x 10 mL                 | Ferene                    |
|                   | G12FER002 | Iron                                      | R1 8 x 63 mL + R2 2 x 73 mL                | Ferene                    |
|                   | G12MAG001 | Magnesium                                 | 12 x 20 mL                                 | Xylidiyl Blue             |
|                   | G12PH001  | Phosphorous                               | 12 x 20 mL                                 | Blue molybdate            |
| ENZYMES           | G12PAL001 | ALP                                       | R1 6 x 59 mL + R2 6 x 17 mL                | DEA DGKC                  |
|                   | G12PAL002 | ALP                                       | R1 8 x 63 mL + R2 2 x 73 mL                | DEA DGKC                  |
|                   | G12GPT001 | ALT-GPT                                   | R1 6 x 59 mL + R2 6 x 17 mL                | Kinetic UV Optimized IFCC |
|                   | G12GPT002 | ALT-GPT                                   | R1 8 x 63 mL + R2 2 x 73 mL                | Kinetic UV Optimized IFCC |
|                   | G12AMY001 | Amylase                                   | 12 x 21 mL                                 | CNPG3                     |
|                   | G12GOT001 | AST-GOT                                   | R1 6 x 59 mL + R2 6 x 17 mL                | Kinetic UV Optimized IFCC |
|                   | G12GOT002 | AST-GOT                                   | R1 8 x 73 mL R2 2 x 73 mL                  | Kinetic UV Optimized IFCC |
|                   | G12CHS001 | Cholinesterase                            | R1 6 x 40 mL + R2 6 x 12 mL                | Hexacyanoferrate III      |
|                   | G12CHS002 | Cholinesterase                            | R1 6 x 20 mL + R2 3 x 11 mL                | Hexacyanoferrate III      |
|                   | G12CHS003 | Cholinesterase                            | R1 8 x 63 mL + R2 2 x 73 mL                | Hexacyanoferrate III      |
|                   | G12CKM001 | CK MB                                     | R1 x 40 mL + R2 1 x 10 mL                  | Enzymatic                 |
|                   | G12CPK001 | CK NAC                                    | R1 6 x 40 mL + R2 6 x 12 mL                | Kinetic UV Optimized IFCC |
|                   | G12CPK002 | CK NAC                                    | R1 6 x 20 mL + R2 3 x 11 mL                | Kinetic UV Optimized IFCC |
|                   | G12CPK003 | CK NAC                                    | R1 8 x 73 mL R2 2 x 73 mL                  | Kinetic UV Optimized IFCC |
|                   | G12GGT001 | G-GT                                      | R1 6 x 59 mL + R2 6 x 17 mL                | SZASZ                     |
|                   | G12GGT002 | G-GT                                      | R1 8 x 73 mL R2 2 x 73 mL                  | SZASZ                     |
|                   | G12LDH001 | LDH                                       | R1 6 x 40 mL + R2 6 x 12 mL                | Kinetic Optimized SCE     |
|                   | G12LDH002 | LDH                                       | R1 6 x 20 mL + R2 3 x 11 mL                | Kinetic Optimized SCE     |
| G12LIP001         | Lipase    | R1 1 x 40 mL + R2 1 x 8 mL + STD 1 x 1 mL | Colorimetric                               |                           |
| SPECIFIC PROTEINS | G12ASL001 | ASO                                       | R1 1 x 56 mL + R2 1 x 19 mL + STD 1 mL     | Turbidimetric             |
|                   | G12BMI001 | $\beta$ 2 Microglobulin                   | R1 1 x 45 mL + R2 1 x 5 mL + CAL 1 x 1 mL  | Turbidimetric             |
|                   | G12CC3001 | C3                                        | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | G12CC4001 | C4                                        | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | G12CRP001 | CRP                                       | R1 2 x 56 mL + R2 2 x 19 mL + STD 1mL      | Turbidimetric             |
|                   | G12CRP002 | CRP                                       | R1 1 x 56 mL + R2 1 x 19 mL + CAL 1 mL     | Turbidimetric             |
|                   | G12FIN001 | Ferritin                                  | R1 2 x 50 mL + R2 3 x 7 mL                 | Turbidimetric             |
|                   | G12IGA001 | IgA                                       | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | G12IGE001 | IgE                                       | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | G12IGG001 | IgG                                       | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | G12IGM001 | IgM                                       | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | G12LPA001 | LP (A)                                    | R1 1 x 20 mL + R2 1 x 4 mL                 | Turbidimetric             |
|                   | G12MIC001 | MicroAlbumin                              | R1 1 x 40 mL + R2 1 x 10 mL + CAL 1 x 1 mL | Turbidimetric             |
|                   | G12RHF001 | RF                                        | R1 1 x 56 mL + R2 1 x 19 mL + CAL 1 mL     | Turbidimetric             |
|                   | G12RHF002 | RF                                        | R1 2 x 56 mL + R2 2 x 19 mL + CAL 1mL      | Turbidimetric             |
|                   | G12TRF001 | Transferrin                               | R1 1 x 40 mL +R2 1 x 10 mL                 | Turbidimetric             |
|                   | SUBSTRATS | G12ALB001                                 | Albumin                                    | 12 x 21 mL                |
| G12BIA001         |           | Bile acids                                | R1 1 x 28 mL + R2 1 x 12 mL + CAL 1 x 2 mL | Enzymatic                 |
| G12CHO001         |           | Cholesterol                               | 9 x 70 mL                                  | CHOD-PAP                  |
| G12CRE001         |           | Creatinine                                | R1 6 x 20 mL R2 6 x 20 mL                  | JAFFÉ                     |

## More Hitachi compatible reagents

|            | Reference        | Name                     | Packaging                      | Method                   |
|------------|------------------|--------------------------|--------------------------------|--------------------------|
| SUBSTRATES | G12CRE002        | Creatinine               | R1 4 x 70 mL + R2 4 x 70 mL    | JAFFÉ                    |
|            | G12BID001        | D Bilirubin              | R1 6 x 40 mL + R2 6 x 10 mL    | Jendrassik Grof Modified |
|            | G12BID002        | D Bilirubin              | R1 8 x 63 mL + R2 2 x 73 mL    | Jendrassik Grof Modified |
|            | G12FRU001        | Fructosamin              | 10 x 21 mL                     | NBT                      |
|            | G12GLU001        | Glucose                  | 9 x 70 mL                      | GOD-POD                  |
|            | G12HDL001        | HDL Cholesterol          | R1 2 x 60 mL + R2 2 x 22 mL    | Clearance                |
|            | G12HDL002        | HDL Cholesterol          | R1 3 x 68 mL + R2 2 x 39 mL    | Clearance                |
|            | G12LAC001        | Lactate                  | R1 3 x 10 mL + R2 3 x 10 (LYO) | Enzymatic LO-POD         |
|            | G12LDL001        | LDL Direct Cholesterol   | R1 1 x 30 mL + R2 1 x 11 mL    | Clearance                |
|            | G12LDL002        | LDL Direct Cholesterol   | R1 1 x 59 mL + R2 1 x 22 mL    | Clearance                |
|            | G12BIT001        | T Bilirubin              | R1 6 x 40 mL + R2 6 x 10 mL    | Jendrassik Grof Modified |
|            | G12BIT002        | T Bilirubin              | R1 8 x 63 mL + R2 2 x 73 mL    | Jendrassik Grof Modified |
|            | G12PRT001        | Total Proteins           | 9 x 70 mL                      | Biuret                   |
|            | G12TRG001        | Tryglicerides            | 9 x 70 mL                      | GPO-PAP                  |
|            | G12URE001        | BUN - Urea               | R1 6 x 59 mL + R2 6 x 17 mL    | Urease-GLDH              |
|            | G12URE002        | BUN - Urea               | R1 8 x 63 mL + R2 2 x 73 mL    | Urease-GLDH              |
|            | G12ACM001        | Uric Acid                | R1 6 x 59 mL + R2 6 x 17 mL    | POD-PAP                  |
| G12PTU001  | Urinary proteins | R1 12 x 20 mL + STD 5 mL | Pyrogallol Red                 |                          |

## CONTROLS & CALIBRATORS

|             | Reference | Name                      | Packaging        | Use                       |
|-------------|-----------|---------------------------|------------------|---------------------------|
| CALIBRATORS | G13CAL001 | Multical                  | 6 x 3 mL         | Substrates & electrolytes |
|             | G13CAL002 | HDL LDL calibrator        | 3 x 1 mL         | HDL & LDL cholesterol     |
|             | G13CAL003 | CK MB calibrator          | 1 x 2 mL         | CK MB                     |
|             | G13CAL004 | Microalbumin calibrator   | 1 x 1 mL         | Microalbumin              |
|             | G13CAL006 | APO A1 & B calibrator     | 1 x 1 mL         | APO                       |
|             | G13CAL007 | LP(a) calibrator          | 1 x 2 mL         | LP(a)                     |
|             | G13CAL008 | Ferritin calibrator       | 4 x 1 mL         | Ferritin                  |
|             | G13CAL010 | Fructosamine calibrator   | 1 x 1 mL         | Fructosamine              |
|             | G13CAL011 | IgE calibrator            | 1 x 2 mL         | IgE                       |
|             | G13CAL013 | Serum proteins calibrator | 1 x 2 mL         | Serum proteins            |
|             | CONTROLS  | G13CTL001                 | Multitrol normal | 6 x 5 mL                  |
| G13CTL002   |           | Multitrol patho           | 6 x 5 mL         | Substrates & electrolytes |
| G13CTL003   |           | CK MB control             | 1 x 2 mL         | CK MB                     |
| G13CTL004   |           | Microalbumin control      | 1 x 2 mL         | Microalbumin              |
| G13CTL005   |           | Urinary proteins control  | 2 x 10 mL        | Urinary proteins          |
| G13CTL006   |           | ASO CRP RF control N      | 6 x 1 mL         | ASO CRP                   |
| G13CTL007   |           | ASO CRP RF control H LYO  | 6 x 1 mL         | ASO CRP                   |
| G13CTL008   |           | Lipidic control set       | 3 x 3 mL         | HDL & LDL Cholesterol     |
| G13CTL010   |           | Fructosamine control      | 2 x 1 mL         | Fructosamine              |
| G13CTL011   |           | IgE control               | 1 x 2 mL         | IgE control               |
| G13CTL012   |           | Ferritin control set      | 2 x 3 mL         | Ferritin control set      |
| G13CTL013   |           | Serum proteins control    | 1 x 2 mL         | Serum proteins control    |
| G13CTL016   |           | LP(A) control             | 1 x 2 mL         | LP(A) control             |



# IMMUNOLOGY

# IMMUNOLOGY

1. IRE 96 & IW 96



# SFRi 96 & IW 96

Elisa Reader and Washer

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& CUSTOMIZABLE



COMPLEMENTARY  
INSTRUMENTS



SIMPLE &  
USER-FRIENDLY



high performance

high capacity software



quick & precise results

easy maintenance



results interpretation

## IRE 96

|                       |                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Principle             | Absorbance technology with semiconductor photodiode                                                                                                                                                      |
| Plate type            | 96-well plate with U, V or flat bottom                                                                                                                                                                   |
| Measuring System      | 8-channel manifold - Monochromatic and bichromatic                                                                                                                                                       |
| Optics                | Spectral range: 400 - 750 nm<br>4 built-in filters: 405 nm, 450 nm, 492 nm and 630 nm<br>Filter wheel can hold up to 8 filters<br>Tungsten halogen light source: 12 V/ 20 W<br>Optical linearity: < 2.5% |
| Shaking               | 3 speed linear shaking (low, medium, high)                                                                                                                                                               |
| Reading range         | 0.001-3.500 ABS                                                                                                                                                                                          |
| Measurement           | Range: 0.001-2.500 ABS<br>Precision: $\pm 1\%$ ; $\pm 0.001$ ABS<br>Speed: 12 s (monochromatic) or 30 s (bichromatic) per 96-well plate                                                                  |
| Repeatability         | CV < 1%                                                                                                                                                                                                  |
| Memory storage        | 42 user-programmable protocols - 2,500 results per day available at any time                                                                                                                             |
| Quality control       | 2 QC files                                                                                                                                                                                               |
| Calibration           | Up to 8 points                                                                                                                                                                                           |
| Input / output        | Parallel printer interface - RS232 port for mono-directional LIS                                                                                                                                         |
| Printout              | Optional external printer                                                                                                                                                                                |
| Display               | 5.7" LCD touch screen - Mono-color display                                                                                                                                                               |
| Operating environment | Temperature 10°C - 40°C - Humidity 15% - 85%                                                                                                                                                             |
| Power requirements    | A.C. 110/220 V $\pm 10\%$ ; 50 - 60 Hz                                                                                                                                                                   |
| Dimensions & weight   | 480(W) x 200(H) x 440(D) mm - 9.6 kg                                                                                                                                                                     |

## IW 96

|                            |                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plate type                 | 96-well plate with U, V or flat bottom                                                                                                                                                                                                                                                                                                                        |
| Manifold                   | 8-channel or 12-channel                                                                                                                                                                                                                                                                                                                                       |
| Liquid dispensing          | Volume 50 - 450 $\mu$ l in 5 $\mu$ l increments<br>Precision < 5% at 3000 $\mu$ l                                                                                                                                                                                                                                                                             |
| Washing, soaking & shaking | N° of wash cycles                      1-9<br>Wash modes                                Row or plate<br>Residual volume                         < 2 $\mu$ l for U and V bottom plates<br>< 3 $\mu$ l for flat bottom plates<br>Aspiration strength                      Programmable simple or double<br>Soaking & shaking time                0 - 99 seconds |
| Liquid containers          | 4 bottles vol. 3.5 L<br>2 washing solutions, 1 distilled water, 1 waste with volume sensor probe                                                                                                                                                                                                                                                              |
| Memory storage             | 40 user-programmable wash protocols<br>9 wash cycles; 2 wash buffers<br>8 different plate types can be programmed                                                                                                                                                                                                                                             |
| Display                    | LCD touch screen - Mono-color display                                                                                                                                                                                                                                                                                                                         |
| Language                   | English                                                                                                                                                                                                                                                                                                                                                       |
| Operating environment      | Temperature 10°C - 40°C - Humidity $\leq 80\%$                                                                                                                                                                                                                                                                                                                |
| Power requirements         | A.C. 110/220 V $\pm 10\%$ ; 50 - 60 Hz                                                                                                                                                                                                                                                                                                                        |
| Dimensions & weight        | 410(W) x 230(H) x 410(D) mm - 7.5 kg                                                                                                                                                                                                                                                                                                                          |



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