Cespons®920Bench Top Random Access ClinicalChemistry Analyzer

Economical. Efficient. Precise. Trusted Performance.



CHOOSING QUALITY.

Reliable Results, Optimized Workflow And High Efficiency

respons[®]920 is the evidence of our ambition to develop and produce outstanding system solutions for the diagnostic laboratory. Bearing in mind the specific demands on throughput and flexibility, this automated random access clinical chemistry system has been designed as a real all-rounder. Due to its concept the respons[®]920 can easily be integrated in all types of laboratories for routine-, emergency- as well as speciality analysis. respons[®]920 stands for reliable results, optimized workflow and high efficiency. Achieved by the perfect match of analyzer, system reagents, applications and our service.

Guaranteed throughput of 200 tests/hour

- · 200 tests/hour with a cycle time of 18 seconds for mono- and 2-component tests
- \cdot 360 tests/hour with optional ISE unit

The answer to your needs

- · High on board reagent capacity of 30 different methods in bar coded mono- and twin-containers
- · Long term reagent and calibration stabilities
- · Large panel of high-quality clinical chemistry and immunoturbidimetric tests manufactured by DiaSys
- \cdot Unique and convenient respons $^{\otimes}$ system container concept
- 30 positions for bar coded patient and STAT samples
- \cdot Flexible sample matrix
- \cdot Low sample volume
- · Customer oriented menu extension for specific system adaption
- \cdot Wide measuring ranges

Inter-assay precision & recovery

| Parameter | Target TLN* value | Mean TLN* value | Recovery [%] | Target TLP** value | Mean TLP** value | Recovery [%] | CV [%] TLN* | CV [%] TLP** | Patient Conc./[CV%] |
|----------------|----------------------|--------------------|-----------------|-----------------------|---------------------|-----------------|----------------|-----------------|------------------------|
| AP [U/L] | 74.2 | 72.5 | 97.7 | 244 | 230 | 94.3 | 0.64 | 0.64 | 54.8/0.5 |
| AST-P5P [U/L] | 37.2 | 38.2 | 103 | 200 | 186 | 93.2 | 1.00 | 0.38 | 29.7/1.1 |
| AMY [U/L] | 72.0 | 72.2 | 100 | 273 | 265 | 97.2 | 0.55 | 0.36 | 39.4/0.7 |
| Ca-P [mg/dL] | 9.54 | 9.24 | 96.9 | 12.2 | 11.9 | 97.5 | 0.51 | 1.46 | 9.40/1.5 |
| CK [U/L] | 133 | 134 | 100 | 543 | 520 | 95.8 | 0.73 | 0.47 | 144/0.6 |
| CREA-J [mg/dL] | 1.13 | 1.11 | 98.2 | 7.73 | 7.20 | 93.1 | 0.57 | 0.97 | 0.91/1.8 |
| DBIL [mg/dL] | 0.53 | 0.55 | 104 | 2.24 | 2.43 | 109 | 0.81 | 0.61 | 0.08/8.3 |
| TBIL [mg/dL] | 1.00 | 0.96 | 96.0 | 5.45 | 5.56 | 102 | 1.57 | 1.35 | 0.08/5.7 |
| LDH [U/L] | 144 | 138 | 95.6 | 394 | 374 | 94.9 | 0.64 | 0.49 | 141/0.8 |
| Lipase [U/L] | 42.1 | 45.2 | 107 | 80.9 | 80.5 | 99.5 | 0.88 | 0.61 | 43.2/1.6 |
| PO4 [mg/dL] | 3.39 | 3.28 | 96.8 | 7.09 | 6.83 | 96.3 | 3.45 | 0.51 | 4.53/2.1 |
| TP [g/dL] | 5.32 | 5.03 | 94.5 | 6.39 | 5.95 | 93.1 | 1.02 | 0.63 | 6.84/0.7 |
| UA [mg/dL] | 6.33 | 6.23 | 98.4 | 9.44 | 9.18 | 97.2 | 0.37 | 0.41 | 4.30/0.5 |

* TruLab N »Normal« control

** TruLab P »Pathological« control

Pleasing to your budget

- Minimized running costs
- Low-maintenance system
- High on-board and shelf life stabilities of DiaSys reagents

Easy to use

- · Automatic bar code scan for samples and reagents
- Ready to use liquid-stable reagents

Method comparison Urea

- Adapter free one-grip loading of reagent containers
- \cdot Versatile software: set-up in eight languages
- \cdot Easy to learn



respons[®]920 vs. competitor clinical chemistry analyzer

n = 89

Passing/Bablok Regression: y = 0.999 x - 0.622 [mg/dL]

r = 0.9981

Method comparison Creatinine



respons[®]920 vs. competitor clinical chemistry analyzer

n = 100

Passing/Bablok Regression: y = 0.961 x + 0.018 [mg/dL]

r = 0.9949

respons®920

Technical specifications

| System type | Automated bench top random access clinical chemistry analyzer | | | | | |
|--------------------------------------|---|--|--|--|--|--|
| Throughput | 200 tests/hour with a cycle time of 18 seconds for mono- and 2-component tests 360 tests/hour with ISE | | | | | |
| Sample types | Serum, plasma, urine, CSF, whole blood | | | | | |
| Sample volume | 2 – 70 μL | | | | | |
| Reagent pipetting | Reagent 1: 50 – 300 μL Reagent 2: 10 – 200 μL | | | | | |
| STAT-analytics | Several sample positions available | | | | | |
| Ion Measurement | Direct potentiometry: Na, K, Cl, Li (optional) | | | | | |
| Bar code identification | Automatic bar code scan for reagents and samples | | | | | |
| Measuring principle | Colorimetry (Rate/End Point); Immunoturbidimetric Assay | | | | | |
| Calibration | Linear, non-linear, multi point | | | | | |
| Sample tray | 30 positions for bar coded patient samples including STAT positions, 9 positions for blanks, calibrators, controls or samples without bar code and ISE solutions | | | | | |
| Sample tubes/cups | Most commonly used primary blood collection tubes and sample cups | | | | | |
| Sample dilution | Dilution ratio: 2- to 150-fold | | | | | |
| Reagent on board capacity | 30 different methods in bar coded mono- or twin-containers for adapter-free one-grip loading, refrigerated | | | | | |
| Reaction temperature | 37 ± 0.2 °C | | | | | |
| Reaction unit | Temperature-controlled heated rotor with 45 reusable quartz glass cuvettes (37 \pm 0.2°C) | | | | | |
| Photometry | 8 wavelengths: 340, 405, 450, 505, 546, 578, 660 and 700 nm (mono- and bichromatic) | | | | | |
| Photometric linearity and resolution | Linearity: 0 – 2.5 OD; resolution: 0.0001 OD | | | | | |
| Water consumption | Up to 7.5 liters per hour | | | | | |
| System interface | Analyzer-PC: USB connectivity bi-directional; CPU: Pentium IV or higher | | | | | |
| Lis connectivity | Yes | | | | | |
| Power source/power consumption | AC 220 V ± 10 %, 50 ± 1 Hz or AC 110 V ± 10 %, 60 ± 1 Hz ; 600 VA (excluding PC/printer/monitor) | | | | | |
| Dimensions | 81 cm (W) x 70 cm (D) x 60 cm (H) | | | | | |
| Weight | Approximately 110 kg | | | | | |

These specifications are subject to change without notice

Handed over by:



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820102 I March 2012

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