

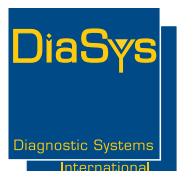


respons[®] 920

BENCH TOP RANDOM ACCESS CLINICAL CHEMISTRY ANALYZER

- ∴ Economical
- ∴ Efficient
- ∴ Precise

Trusted performance



CHOOSING QUALITY.

The respons[®]920 is the evidence of our ambition to develop and produce systems of highest quality for the diagnostic laboratory. Bearing in mind the specific demands on throughput, flexibility and economy, this automated random access clinical chemistry analyzer has been designed as a real allrounder stand-alone system. This modern concept can be easily integrated in any type of laboratories for routine-, emergency- as well as speciality analysis.

Guaranteed throughput of 200 tests/hour

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

The answer to your needs

- :: Unique and convenient respons[®] family package concept
- :: 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
- :: Customer oriented menu extension for specific system adaption
- :: Flexible sample matrix
- :: 30 positions for bar coded patient and STAT samples
- :: Low sample volume
- :: Broad 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

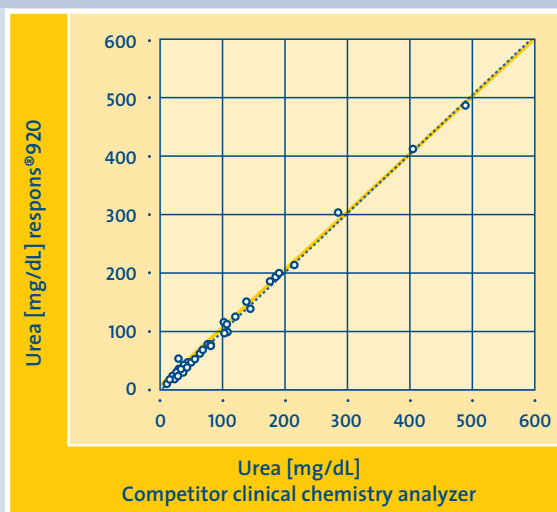
Pleasing to your budget

- :: Very competitive price per test ratios
- :: Low service and maintenance expenses
- :: Long term on-board and shelf life stabilities of DiaSys reagents

Easy to use

- :: Automatic bar code scan for sample and reagent
- :: Ready to use reagents
- :: Adapter free one-grip loading of reagent containers
- :: Versatile and valuable software functions
- :: Easy to learn

Method comparison Urea



respons®920 vs. competitor clinical chemistry analyzer

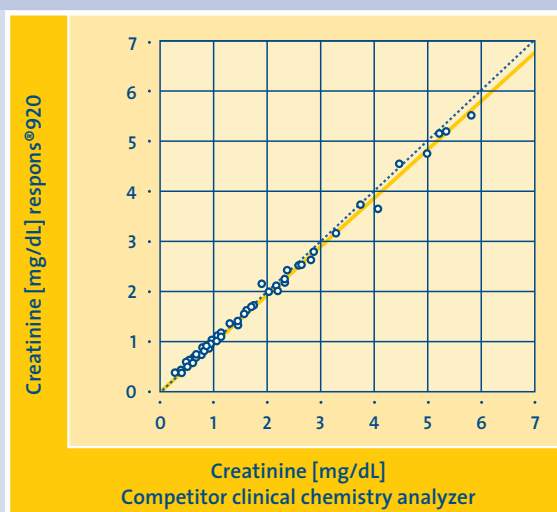
n = 89

Passing/Bablok Regression:

$$y = 0.999x - 0.622 \text{ [mg/dL]}$$

r = 0.9981

Method comparison Creatinine



respons®920 vs. competitor clinical chemistry analyzer

n = 100

Passing/Bablok Regression:

$$y = 0.961x + 0.018 \text{ [mg/dL]}$$

r = 0.9949

respons[®]920

Technical specifications

System type	Bench top random access clinical chemistry analyzer
STAT-analytics	Several sample positions available
Throughput	200 tests/hour with a cycle time of 18 seconds for mono- and 2 component tests 360 tests/hour with ISE
Bar code identification	Automatic bar code scan for reagents and samples
Measuring principle	Colorimetry (Rate/End Point); Turbidimetric Immunoassay; Direct Potentiometry (ISE: K, Na, Li, Cl)
Calibration	Linear, non-linear, multi point
Sample tray	30 positions for bar coded patient samples including STAT positions, 9 positions for blanks, calibrators, controls, samples without bar code and ISE solutions
Sample volume	2 – 70 µL
Sample tubes/cups	Most commonly used blood collection tubes and sample cups
Sample types	Serum, plasma, urine, CSF, whole blood
Sample dilution	Dilution ratio: 2 to 150 times
Reagent on board capacity	30 different methods in bar coded mono- or twin-containers for adapter-free one-grip loading, refrigerated
Reagent pipetting	Reagent 1: 50 – 300 µL Reagent 2: 10 – 200 µL
Reaction temperature	37 ± 0.2 °C
Reaction unit	Temperature controlled rotating tray with 45 reusable quartz glass cuvettes (37 ± 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
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



DiaSys Diagnostic Systems GmbH

Alte Strasse 9 :: 65558 Holzheim :: Germany

Phone +49 (0) 64 32 /91 46-0 :: Fax +49 (0) 64 32 /91 46-32

mail@diasys.de :: www.diasys-diagnostics.com