



# CRFQ 0506-MMB1500000003

Bid opening date: March 10, 2015  
Bid Opening Time: 1:30 PM

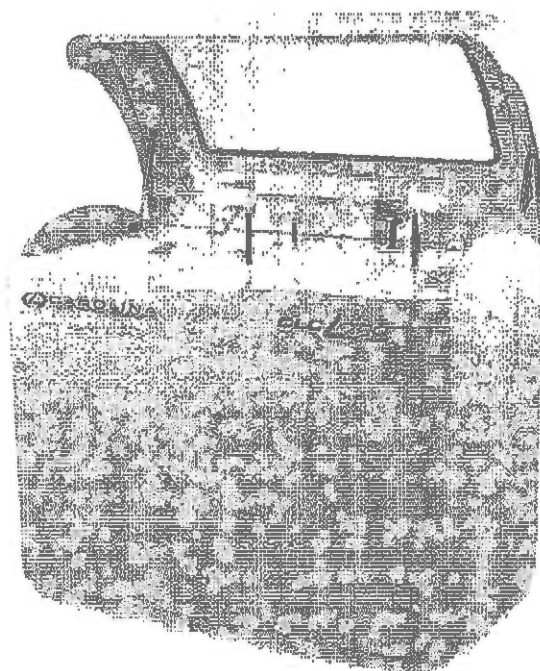
03/10/15 11:04:54  
WV Purchasing Division

ATTN: Greg Clay  
Fax Number: 304-558-3970

## Carolina Liquid Chemistries, Corp

Wake Forest Biotech Place  
575 N Patterson Ave, Suite 430  
Winston-Salem, NC 27101  
(336) 722-8910  
Veteran-owned Small Business  
DUNS- 962385787

Kyle Barnes  
National Accounts Manager  
(336) 722-8910 x 135



### List of included Attachments

1. Price Sheet
2. Vendor Preference Certificate
3. Purchasing Affidavit
4. Addendum Acknowledgement Form
5. Certificate of Insurance
6. ISO Certification
7. CLC720 Brochure
8. Tosoh AIA Test Menu

Package inserts available upon request

## CLC720i System Agreement - Mildred Mitchell-Bateman Hospital

Agreement Number: \_\_\_\_\_

Chemistry	Part #	Description	Price	Kits/Year	Cost/Year	Cost/Test
ALB (Albumin)	ST224	4x150 Tests	\$187.34	5	\$936.70	\$0.31
ALP (Alkaline Phosphatase)	ST206	4x200 Tests	\$211.74	4	\$846.96	\$0.26
ALT (Alanine Aminotransferase)	ST240	4x300 Tests	\$222.54	3	\$667.62	\$0.19
AST (Aspartate Aminotransferase)	ST241	4x300 Tests	\$222.54	3	\$667.62	\$0.19
BUN (Blood Urea Nitrogen)	ST252	4x200 Tests	\$195.34	3	\$586.02	\$0.24
CALC (Calcium)	ST251	4x200 Tests	\$190.54	3	\$571.62	\$0.24
CHOL (Cholesterol)	ST211	4x200 Tests	\$224.54	2	\$449.08	\$0.28
CO2 (Carbon Dioxide)	ST313	4x200 Tests	\$222.54	4	\$890.16	\$0.28
CREA (Creatinine)	ST243	4x250 Tests	\$223.54	3	\$670.62	\$0.22
DBIL (Direct Bilirubin)	ST229	4x150 Tests	\$204.14	3	\$612.42	\$0.34
GGT (Gamma-Glutamyl Transferase)	ST209	4x250 Tests	\$208.94	2	\$417.88	\$0.21
GLU (Glucose)	ST208	4x200 Tests	\$201.74	3	\$605.22	\$0.25
HDL (HDL Cholesterol Direct)	ST616	2x250 Tests	\$389.74	3	\$1,169.22	\$0.78
NA/K/CL (Sodium/Potassium/Chloride)	BA34-10-63673	1x1250 Tests	\$430.54	2	\$861.08	\$0.34
ST AIA PACK, PSA ***	025263	20 cupsx5 trays	\$720.70	2	\$1,441.39	\$7.21
TBIL (Total Bilirubin)	ST228	4x200 Tests	\$201.74	4	\$806.96	\$0.25
TP (Total Protein)	ST217	4x200 Tests	\$206.94	4	\$827.76	\$0.26
TRIG (Triglycerides)	ST213	4x200 Tests	\$237.34	2	\$474.68	\$0.30

\*\*\* For use on Tosoh Instrument

Reagent Total	\$13,503.04
Calibrator Total	\$4,133.03
Control Total	<u>\$27,884.84</u>
<b>Grand Total</b>	<b>\$45,520.91</b>
<b>Monthly Total</b>	<b>\$3,793.41</b>

**Included:** New CLC720i chemistry system plus DI H2O System (if applicable)  
 Reagents, Calibrators and Controls for selected test panels  
 Service including labor and non-consumable parts. Tax and Freight not included.  
 Installation, Validation assistance, and Training for 1 at CLC Training Center

**Customer Agrees to:** Purchase above kits monthly for above panels / tests.

**Carolina Liquid Chemistries Corp.**

**Mildred Mitchell-Bateman Hospital**

Signature \_\_\_\_\_

Signature \_\_\_\_\_

Name \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Calibrators	Part #	Description	Price	Kits/Year	Cost/Year
AIA PACK, PSA Calibrator Set ***	020363	0&Pos.;4 x 1 mL	\$226.46	2	\$452.92
Bilirubin Calibrator	CC465915	10x1 mL	\$288.54	3	\$865.62
Serum Calibrator - CLC720	28200	6x5mL	\$234.54	12	\$2,814.49
			Calibrator Total		\$4,133.03

\*\*\* For use on Tosoh Instrument

**Carolina Liquid Chemistries Corp.**

**Mildred Mitchell-Bateman Hospital**

Company Name

Signature

Signature

Name

Name

Date

Date

Controls and Consumables	Part #	Description	Price	Kits/Year	Cost/Year
Acid Wash Solution	100262	2x500 mL	\$238.54	6	\$1,431.24
AIA PACK, PSA Linearity Set ***	020663	2x4mL;2x2mL	\$235.54	2	\$471.08
AIA PACK, Sample Diluting Solution ***	020863	4x4mL	\$259.42	2	\$518.84
Alkaline Wash Solution	100263	2x500 mL	\$238.54	12	\$2,862.49
CD80 CLC720 Cleaning Solution	ST160	2x1 L	\$235.54	48	\$11,305.95
Lamp Module - CLC 720	801-BA800022200	Each	\$232.54	2	\$465.08
CLC720 CHMTRK H Assy Level 1	ST23-640085	6x5 mL	\$244.54	9	\$2,200.86
CLC720 CHMTRK H Assy Level 2	ST23-640086	6x5 mL	\$244.54	9	\$2,200.86
CLC720 CHMTRK H Assy Level 3	ST23-640087	6x5 mL	\$244.54	9	\$2,200.86
Cleaning Solution Kit - ISE CLC720	BA34-10-63645	1x90 mL	\$250.54	2	\$501.08
ISE Control Kit - CLC720	BA34-10-63669	Each	\$310.54	12	\$3,726.49
			Control Total		\$27,884.84

\*\*\* For use on Tosoh Instrument

Carolina Liquid Chemistries Corp.

Mildred Mitchell-Beteman Hospital

Company Name

Signature

Signature

Name

Name

Date

Date

Rev. 04/14

# State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-27. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-27, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

**1. Application is made for 2.5% vendor preference for the reason checked:**

- Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
- Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
- Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

**2. Application is made for 2.5% vendor preference for the reason checked:**

- Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

**3. Application is made for 2.5% vendor preference for the reason checked:**

- Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

**4. Application is made for 5% vendor preference for the reason checked:**

- Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

**5. Application is made for 3.5% vendor preference who is a veteran for the reason checked:**

- Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

**6. Application is made for 3.5% vendor preference who is a veteran for the reason checked:**

- Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

**7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.**

- Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Kyle Barnes  
Date: 10MAR15

Signed: [Signature]  
Title: National Accounts Manager

RFQ No. 0506 MMBLS00000003

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-20-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Carolina Liquid Chemistries

Authorized Signature: [Signature] Date: 10 MAR 15

State of North Carolina

County of Forsyth, to-wit:

Taken, subscribed, and sworn to before me this 10 day of March, 2015.

My Commission expires June 28, 2016.

AFFIX SEAL HERE

NOTARY PUBLIC Judy H. Morgan  
Purchasing Affidavit (Revised 07/01/2012)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: MMB150000003**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Carolina Liquid Chemistries  
Company

[Signature]  
Authorized Signature

10MAR15  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.  
Revised 6/8/2012



CAROL39 OP ID: PS

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
03/10/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Mountcastle Insurance P.O. Box 1937 307 West Center Street Lexington, NC 27293-1937 Ryan Harman	<b>CONTACT NAME:</b> PHONE (A/C No. Ext): FAX (A/C. No): E-MAIL ADDRESS:
	INSURER(S) AFFORDING COVERAGE <b>INSURER A: Chubb Group of Ins Co.</b>
<b>INSURED</b> Carolina Liquid Chemistries Genchem, Inc and Carolina Immunchemistry, IQuantive Michael Everhart 575 N Patterson Ave, Ste 430 Winston-Salem, NC 27101	<b>INSURER B:</b> <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>

**COVERAGES**                      **CERTIFICATE NUMBER:**                      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR	WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC			9947-9942	04/14/2014	04/14/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 1,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> hired PD			73579903	04/14/2014	04/14/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (PER ACCIDENT) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$			7987-8638	04/14/2014	04/14/2015	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	N/A	7174-4985	04/14/2014	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000
A	Business Personal Property			3595-1645	04/14/2014	04/14/2015	BPP 1,200,000 Ded 2,500

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

<b>CERTIFICATE HOLDER</b>  Health and Human Resources Bateman Hospital Mildred Mitchell P O Box 448 Huntington, WV 25709	<b>HEALTHH</b>	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
		AUTHORIZED REPRESENTATIVE Ryan Harman

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# Certificate of Registration

**QUALITY MANAGEMENT SYSTEM - ISO 13485: 2003**

*This is to certify that:*

**Carolina Liquid Chemistries Corporation**  
**510 West Central Avenue**  
**Suite C**  
**Brea**  
**California**  
**92821**  
**USA**

**Holds Certificate No. FM 508697**

*and operates a Quality Management System which complies with the requirements of ISO 13485: 2003 for the following scope:*

**A manufacturer and distributor of clinical chemistry reagent kits**

*For and on behalf of BSI:*

**VP Regulatory Affairs, BSI Group America Inc**

**Originally Registered: 07/28/2006**

**Latest Issue: 05/22/2012**

**Expiry Date: 06/08/2015**



Page: 1 of 1

This certificate remains the property of BSI and shall be returned immediately upon request.  
An electronic certificate can be authenticated online. Printed copies can be validated at [www.bsigroup.com/ClientDirectory](http://www.bsigroup.com/ClientDirectory)  
To be read in conjunction with the scope above or the attached appendix.  
Americas Headquarters: BSI Group America Inc, 12110 Sunset Mills Road, Suite 200, Reston, VA 20190, USA.  
A Member of the BSI Group of Companies.

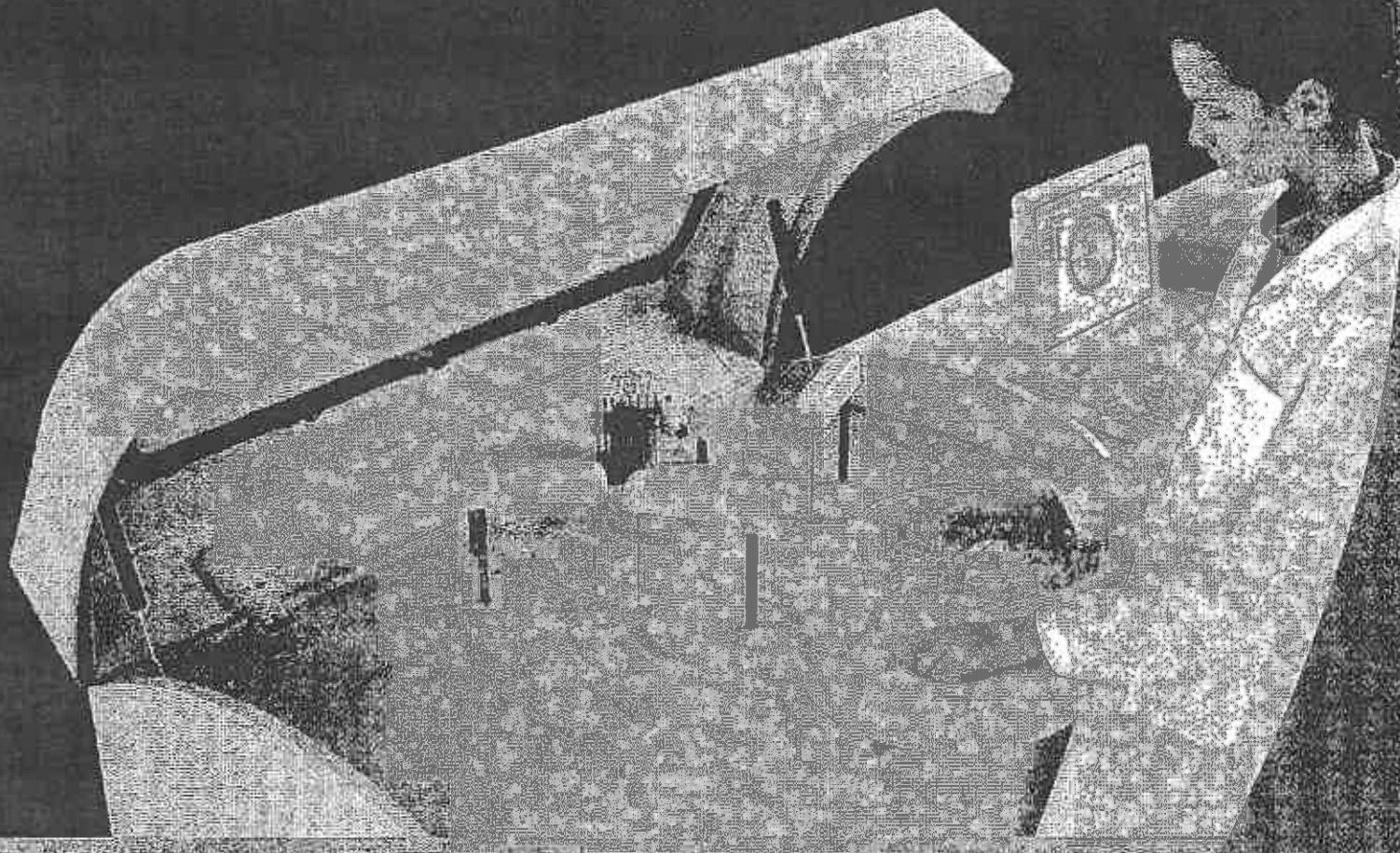


carolinachemistries.com

# CLC720

Chemistry Analyzer

Routine chemistry. Special chemistry. Urine drug tests.

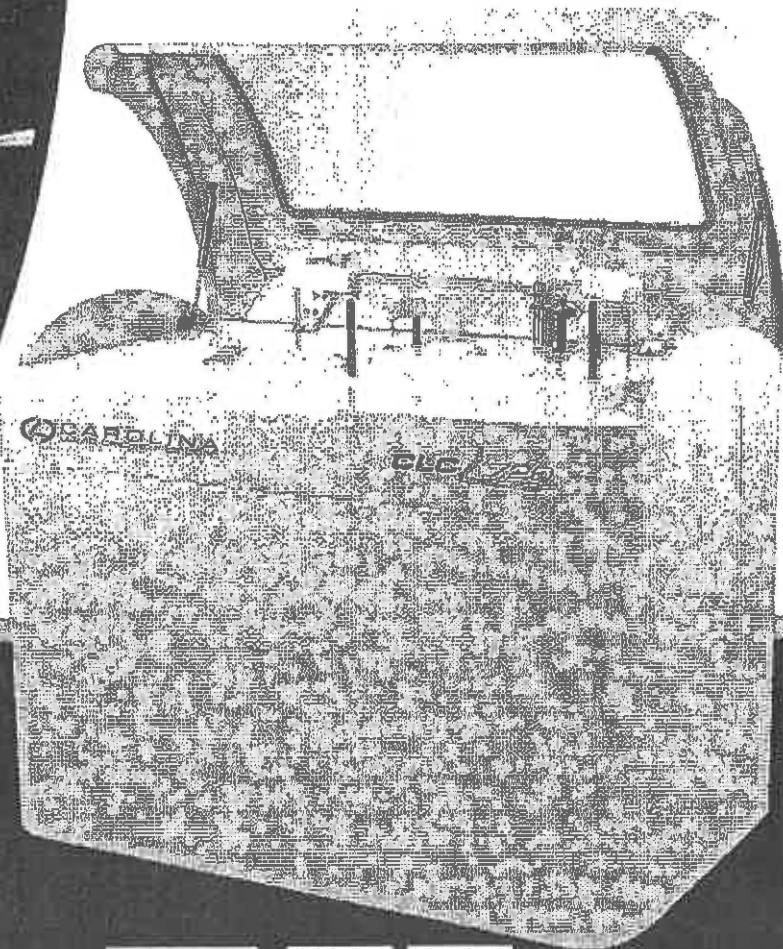
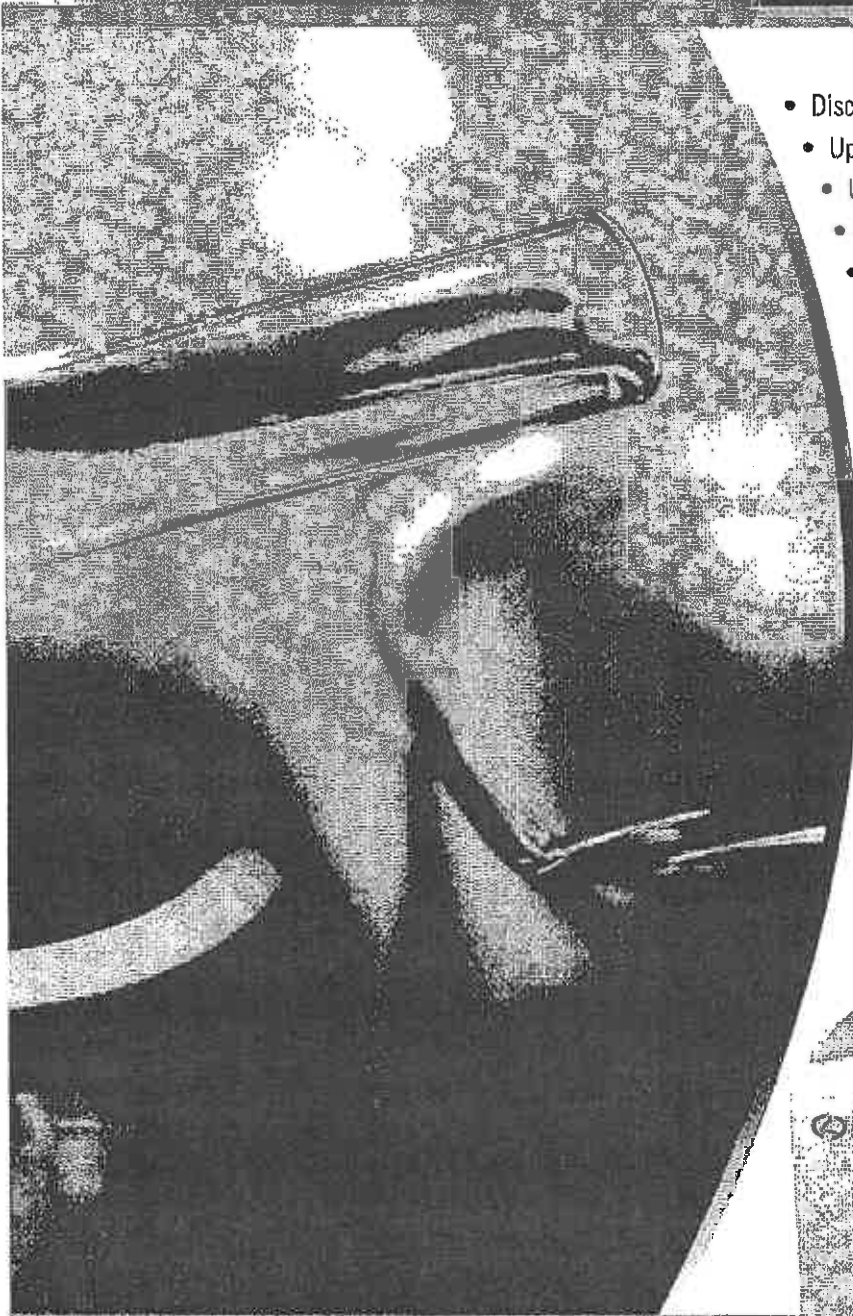


RECEIVED TIME MAR. 10. 10:54AM

PRINT TIME MAR. 10. 11:02AM

# CLC720 Chemistry Analyzer

- Discrete, random access, fully automated
- Up to 560 tests per hour with ISE
  - Up to 77 onboard chemistries plus Na+, K+, Cl-
  - Refrigerated reagent compartment
- Sample tray: 90 positions
- Automatic probe cleaning, liquid level detection, clot detection, probe collision protection
- 8-step auto washing system
- 12 wavelengths: 340~800nm
- Automatic dilution of high samples above usable range
- Internal reagent and sample barcode reader
- Bi-directional LIS interface with host query
- Eliminates the need for cumbersome racks
- Pre-dilution for certain assays
- STAT capabilities



RECEIVED TIME MAR. 10. 10:54AM

PRINT TIME MAR. 10. 11:02AM

Real-time monitoring of working status.

Clot detection to avoid incorrect reaction at the very beginning of the reaction process.

High performance, reusable cuvettes, and accurate results.

### CLC720 Chemistry Analyzer Test Menu

Acid Phos	Digoxin	Phosphorus
Aldolase	Direct Bilirubin	Phosphorus, urine
Albumin	Fibrinogen	Plac® Test
Alcohol	Fructosamine	Potassium
Alk Phos	Gentamicin	Potassium urine
ALT	GGT	Prealbumin
Amikacin	Glucose	Primidone
Ammonia	Glucose, urine	Procainamide
Amylase	GlycoMark™	Propoxyphene
APO A1	Haptoglobin	Quinidine
APO B	HBD	RF
ASO	HDL-direct	Salicylate
AST	HbA1c	Sodium
BUN	Homocysteine	Sodium,urine
BUN, urine	hsCRP	Theophylline
C3	IgA	Thyroxine (T4)
C4	IgG	TIBC
Calcium	IgM	TIBC Direct
Calcium, urine	Insulin	Tobramycin
Carbamazepine	Iron	Total Bile Acids
Chloride	Lactate	Total Bilirubin
Chloride, urine	LP(a)	Total Protein, urine
Cholesterol	LDH	Transferrin
Cholinesterase	LDL-direct	Triglycerides
CK	Lidocaine	T-Uptake
CK-MB	Lipase	UIBC
CO2	Lithium	Uric Acid
Creat, urine	Magnesium	Uric Acid, urine
Creatinine	Methaqualone	Valproic Acid
CRP	Microalbumin	Vancomycin
CRP wide-range	NAPA	Vitamin D
Cystatin C	Phenobarbital	
D-dimer	Phenytoin	

Plac® Test is a registered trademark of dialGicus.

### Urine Drug Tests

#### ALCOHOL

Ethanol  
Ethanol Metabolite (EtG\*)

#### ILLICIT DRUGS

Cannabinoids (THC)  
Cocaine  
Cocaine Metabolite  
Ecstasy (MDMA)  
Heroin (6-AM)  
K2\* (synthetic marijuana)  
Methamphetamine  
Phencyclidine (PCP)

#### BARBITURATES

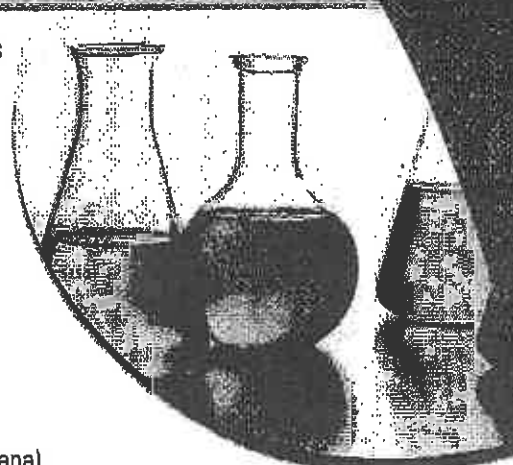
#### BENZODIAZEPINES

#### OPIOIDS

Buprenorphine  
Fentanyl\*  
Hydrocodone\*  
Meperidine\*  
Methadone  
Methadone Metabolite (EDDP)  
Oxycodone  
Propoxyphene  
Tapentadol\*  
Tramadol\*

#### MUSCULOSKELETAL RELAXANTS

Carisoprodol\*



#### SEDATIVES/HYPNOTICS

Zolpidem\*

#### STIMULANTS

Cotinine\* (nicotine metabolite)  
Amphetamine

#### TRICYCLIC ANTIDEPRESSANTS

#### ADULTERANTS

Aldehyde  
BUN  
Chromate Reagent  
Creatinine (UCREA)  
Halogen  
Nitrite  
Oxidant  
pH reagent  
Specific Gravity, and more...

\* for forensic use only

carolinachemistries.com

**NEW ASSAYS: HYDROCODONE & VITAMIN D**

# CLC720 Chemistry Analyzer

## Technical Specifications

### System function:

Fully automated, discrete, random access for routine, STAT, urine and homogeneous immunoassays: STAT sample priority

- Throughput:** Up to 400 tests/hour, up to 560 tests/hour without LI
- Measuring principles:** Absorbance photometry, turbidimetry
- Methodology:** End-point, Fixed-time, Kinetic, ISE  
Single/Dual/Triple/Quadruple reagent chemistries, monochromatic/bichromatic
- Programming:** User defined profiles and calculations

### Sample Handling:

- Sample tray:** 80 positions
- Sample volume:** 2-45µl, step by 0.1 µl
- Sample probe:** Liquid level detection, clot detection and collision protection
- Probe cleaning:** Automatic washing both interior and exterior, carry-over ≤ 0.1%
- Automatic sample dilution:** Pre-dilution and post-dilution with ratio up to 1:150
- Dilution vessel:** Cuvette

### Internal bar code reader:

Used for sample and reagent programming; applicable to various bar code systems including Codabar, ITF (Interleaved Two of Five), code128, code39, UPC/EAN, Code93; capable of communicating with LIS in a bi-directional mode

### ISE Module:

- K<sup>+</sup>, N<sup>+</sup>, Cl<sup>-</sup>**
- Throughput:** Up to 240 tests per hour

### Reagent Handling:

- Reagent tray:** 80 positions in refrigerated compartment (4-10° C) R1: 150-350µl, step by 1µl; R2/R3/R4: 20-350µl, step by 1µl  
2 independent reagent probes
- Reagent probe:** Liquid level detection, collision protection and inventory checking
- Probe cleaning:** Automatic washing both interior and exterior

### Reaction System:

- Reaction rotor:** Rotating tray, 90 cuvettes with automatic washing
- Cuvette:** Optical length 5mm
- Reaction volume:** 150-360µl
- Operating temperature:** 37° C
- Temperature fluctuation:** ±0.1° C
- Mixing system:** 2 independent mixers

### Optical System:

- Light source:** halogen-tungsten lamp
- Photometer:** Reversed optics, grating photometry
- Wavelength:** 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm
- Absorbance range:** 0-3Abs (10mm conversion)
- Resolution:** 0.001 Abs

### Control and Calibration:

- Calibration mode:** Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, exponential, Polynomial, Parabola
- Control rules:** Westgard multi-rule, Cumulative sum check, twin plot

### Operation Unit:

- Operation system:** Windows® 7/Windows® XP, Dell 380
- Interface:** RS-232

### Working Conditions:

- Power Supply:** 110/115V
- Temperature:** 15-30° C
- Humidity:** 35-80%
- Water consumption:** 20L/hour
- Dimension:** 48" x 27" x 45" (W x D x H)
- Weight:** 551 lbs (250 Kg)

CLC720.rv1403

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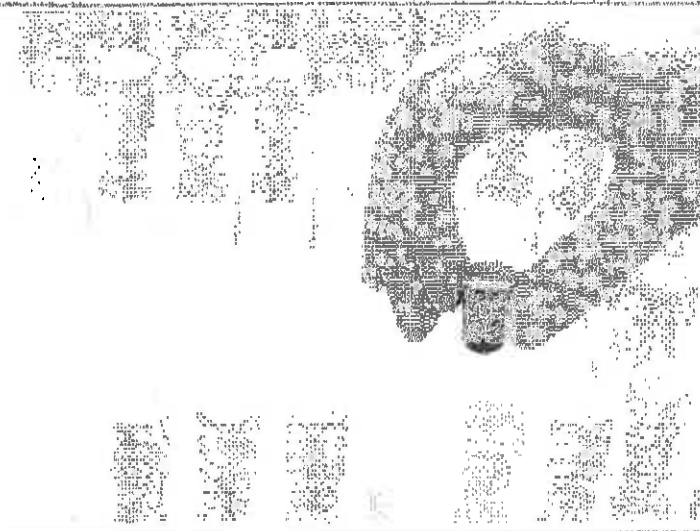
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## Tosoh AIA Test Menu

### Unit Dose Test Cup Reagent System

- Dry reagent format
- 90 day calibration stability for most assays
- Single, unitized cups - No pre-mixing or measuring
- Interchangeable results between Tosoh AIA Systems
- Bar-coded for identification/inventory management
- 10 minute incubation time for most assays



### One Reagent for all Tosoh AIA Systems

The AIA-PACK Test Cup format works with every Tosoh AIA Automated Immunoassay System. Reagents are interchangeable, so laboratories with more than one Tosoh system can use the same reagents. Transition between systems is seamless, ensuring consistent results and efficient, economical operation for the laboratory. Extensive test menu includes: cardiac, thyroid, reproductive, tumor, metabolic, diabetes, kidney, anemia assays and more.



**AIA-360**  
36 Tests Per Hour

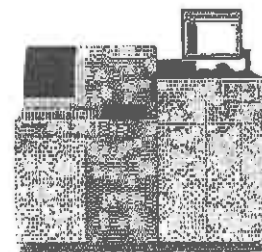


**AIA-600 II**  
60 Tests Per Hour



**AIA-900**  
90 Tests Per Hour

*AIA-900 is also available as 3 tray and 18 tray sorter models.*



**AIA-2000**  
200 Tests Per Hour

## TOSOH BIOSCIENCE

# Tosoh AIA Test Menu

10 minute incubation unless otherwise noted.

## Tumor Markers

AFP  
CEA  
PSA  
CA 125  
CA 27.29  
CA 19-9

## Diabetes Assays

C-Peptide  
HbA1c\*  
Insulin

## Thyroid

TSH  
TT3  
T4  
FT3  
FT4  
T-Uptake  
TSH 3rd Gen\*  
TPO Ab\*  
Tg Ab\*

## Cardiac Markers

CKMB  
Troponin I 2nd Gen  
Myoglobin

## Anemia

Ferritin  
Vitamin B12\*  
Folate\*  
RBC Folate\*

## Reproductive

$\beta$ -HCG  
DHEA-S  
Estradiol  
FSH  
LH II  
Prolactin  
Progesterone  
Testosterone

## Kidney Marker Assays

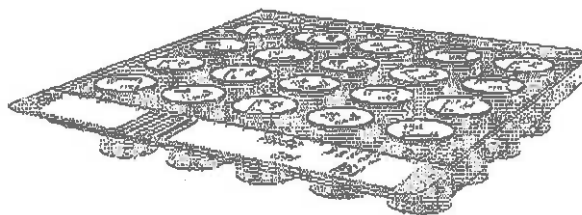
$\beta$ -2 Microglobulin  
Cystatin C  
iPTH

## Metabolic

Cortisol  
HGH

## Additional Assays

ACTH  
Homocysteine **Now!**  
IgE II  
PAP  
Vitamin D\* **Now!**

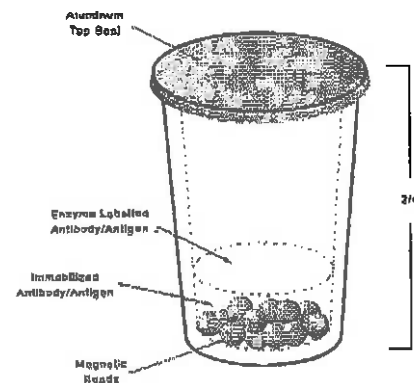


- \* Available on AIA-360, AIA-600 II and AIA-900 only.
- 40 minute incubation. Not available for use on AIA-360.

Reagent Tray - 20 Test Cups/tray

## Unit Dose Test Cup Reagents

- Single, unitized cups use a dry reagent format that requires no pre-mixing, no pre-measuring, no on-board refrigeration and no waste.
- Dry reagent format ensures calibration stability of up to 90 days for most assays.
- Reagents have a one year shelf life from date of manufacture.
- The AIA test cups and trays are labeled with code and lot number for automated scheduling and inventory management on the AIA-2000, AIA-1800 and AIA-900 sorter models.
- ST AIA-PACK reagents provide a faster turnaround time due to a 10 minute incubation protocol.
- Extensive test menu provides a wide range of immunoassay tests including thyroid, cardiac markers, tumor markers, reproductive hormones, anemia markers, metabolic markers, diabetes, kidney markers and more.



Test Cup Diagram



**TOSOH BIOSCIENCE**

TOSOH

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