



# ***CHOLESTEROL REFERENCE METHOD LABORATORY NETWORK (CRMLN)***

## **LIST OF ANALYTICAL SYSTEMS & REAGENTS CERTIFIED FOR TOTAL CHOLESTEROL (TC)**

**Date Updated: March 2022**

The Cholesterol Reference Method Laboratory Network (CRMLN) has certified the following systems as having documented traceability to the CDC Lipids Reference Laboratory for total cholesterol. Detailed description about the analytical system evaluated, including instrument, calibrator, and reagent information, along with contact information for each laboratory is listed in the following section. Certificates expire **two years** after the certification date.

**Anhui Iprocom Biotech Co., Ltd. Biochemistry Standardization Laboratory**

Haigang,Liang

Building 18, Liandong U Valley, Corner of Fanhua Street and Jilin Road,hefei,230000 P.R.China

P.R. China, China

Phone: 0551-65358887/18129830676

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Beckman Coulter AU680 Chemistry Analyzer	Anhui Iprocom Biotech Co., Ltd. Total Cholesterol Kit	2020021001	Randox Laboratories Limited ACUSERA CAL3	996UE	Venous Serum	6/12/2020	Beijing Institute of Geriatrics	No
Anhui Iprocom Biotech Co., Ltd. EPNK-600 Chemistry Analyzer	Anhui Iprocom Biotech Co., Ltd. Total Cholesterol Kit	2020021001	Randox Laboratories Limited ACUSERA CAL3	996UE	Venous Serum	6/12/2020	Beijing Institute of Geriatrics	No
Hitachi Hitachi7180 Chemistry Analyzer	Anhui Iprocom Biotech Co., Ltd. Total Cholesterol Kit	2020021001	Randox Laboratories Limited ACUSERA CAL3	996UE	Venous Serum	6/12/2020	Beijing Institute of Geriatrics	No

**Siemens Healthcare Diagnostics Inc.**

Sheila Perez-Nunez  
P.O Box 6101, ms 104  
Newark, DE, USA  
Phone: 302-631-9370

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Siemens Healthcare Diagnostics Inc. Atellica® CH 930 Analyzer	Siemens Healthcare Diagnostics Inc. Atellica® CH Cholesterol_2 (Chol_2)	2909222	Siemens Healthcare Diagnostics Inc. Atellica CH CHEM CAL	534179E	Serum	6/24/2020	CEQAL Inc.	No
Siemens Healthcare Diagnostics Inc. Dimension® ExL™ with LM Integrated Chemistry System	Siemens Healthcare Diagnostics Inc. CHOL Flex® reagent cartridge ( DF27)	GE0225	Siemens Healthcare Diagnostics Inc CHOL Calibrator ( DC16)	0CD003	Serum	6/24/2020	CEQAL Inc.	No
Siemens Healthcare Diagnostics Inc. Dimension® RxL® chemistry clinical System	Siemens Healthcare Diagnostics CHOL Flex® reagent cartridge (DF27)	GE0225	Siemens Healthcare Diagnostics Inc. CHOL Calibrator (DC16)	0CD003	Serum	6/24/2020	CEQAL Inc.	No
Siemens Healthcare Diagnostics Inc. Dimension Vista® System	Siemens Healthcare Diagnostics Inc.	20058AD	Vista Chem 1 Calibrator	0AM081	Serum	6/24/2020	CEQAL Inc.	No

**Ortho Clinical Diagnostics**  
Michael Castro  
100 Indigo Creek Drive Building 313  
Rochester, NY, USA  
Phone: 453-5585

Instrument	Reagent	Reagent Lot(s)	Calibrator	Calibrator Lot(s)	Matrix	Certification Date	Network Laboratory	POC
Ortho Clinical Diagnostics VITROS® 5,1 FS Chemistry System Serial no: AF-20001265	Ortho Clinical Diagnostics VITROS® Chemistry Product CHOL Slides	0843-3363-9478	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/20/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® 5600 Integrated System Serial no: AF-2000081	Ortho Clinical Diagnostics VITROS® Chemistry Product CHOL Slides	0843-3363-9478	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/20/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® 4600 Chemistry System Serial no: AF-2000081	Ortho Clinical Diagnostics VITROS® Chemistry Product CHOL Slides	0843-3363-9478	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/20/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® 350 Chemistry System Serial no: AF-20003110	Ortho Clinical Diagnostics VITROS® Chemistry Product CHOL Slides	0843-3363-9478	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/20/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® XT 3400 Chemistry System Serial no: AS-47696	Ortho Clinical Diagnostics VITROS® XT Chemistry Product TRIG-CHOL Slides	6810-0005-5305	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/21/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® XT 3400 Chemistry System Serial no: AS-47696	Ortho Clinical Diagnostics VITROS® Chemistry Product CHOL Slides	0843-3363-9478	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/21/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® XT 7600 Integrated System Serial no: AF-20003110	Ortho Clinical Diagnostics VITROS® Chemistry Product CHOL Slides	0843-3363-9478	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/21/2020	CEQAL Inc.	No
Ortho Clinical Diagnostics VITROS® XT 7600 Integrated System Serial no: AF-20001265	Ortho Clinical Diagnostics VITROS® XT Chemistry Product TRIG-CHOL Slides	6810-0005-5305	Ortho Clinical Diagnostics VITROS® Calibrator Kit 2	219	Serum	7/22/2020	CEQAL Inc.	No

**Nova Biomedical**  
Martina Medkova  
200 Prospect Street  
Waltham, MA, USA  
Phone: 781-647-3700 x1274

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Nova Biomedical Allegro VITROS 5,1 FS Chemistry System	Nova Biomedical Allegro Lipid Profile Cartridge	20237010	Nova Biomedical Cholesterol Liquid Calibrators	OCD009	SERUM	10/21/2020	CEQAL Inc.	No

**R&D Laboratory, Medicon Hellas SA**

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5 Melitona St.  
Athens (Gerakas), Greece  
Phone: 0030-210-6606132

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Abbott Architect Series VITROS 350 Chemistry System	Medicon Hellas SA Cholesterol	20181	Medicon Hellas SA Medical	1014	Serum	10/26/2020	Erasmus MC	No

**Abbott/Alere San Diego**

Catherine Gugala

9995 Summers Ridge Rd.

San Diego, CA, USA

Phone: 858-805-3185

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Abbott Diagnostics, Technologies AS Afinion™ VITROS XT 3400 Chemistry System	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel	10208391	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel Control CI and CII	10205104, 10205105	Plasma	11/6/2020	CEQAL Inc.	Yes
Abbott Diagnostics, Technologies AS Afinion™ BS2000M	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel	10208567	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel Control CI and CII	10208380, 10208381	Plasma	11/6/2020	CEQAL Inc.	Yes
Abbott Diagnostics, Technologies AS Afinion™ BS830	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel	10208391	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel Control CI and CII	10205104, 10205105	Plasma	11/6/2020	CEQAL Inc.	Yes
Abbott Diagnostics, Technologies AS Afinion™ BS800M	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel	10208567	Abbott Diagnostics, Technologies AS Afinion™ Lipid Panel Control CI and CII	10208380, 10208381	Plasma	11/6/2020	CEQAL Inc.	Yes

**R&D Laboratory, Medicon Hellas SA**

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5 Melitona St.  
Athens (Gerakas), Greece  
Phone: 0030-210-6606132

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Abbott Architect Series BS430	Medicon Hellas SA Cholesterol	20181	Medicon Hellas SA Medical	1014	Serum	11/27/2020	Erasmus MC	No
Siemens Advia Series BS240	Medicon Hellas SA Cholesterol	19362	Medicon Hellas SA Medical	1014	Serum	11/27/2020	Erasmus MC	No
Beckman Coulter AU Series Alinity c-system	Medicon Hellas SA Cholesterol	2018	Medicon Hellas SA Medical	1014	Serum	11/27/2020	Erasmus MC	No
Diatron Medilyzer Series c16000	Medicon Hellas SA Cholesterol	22011	Medicon Hellas SA Medical	1014	Serum	11/27/2020	Erasmus MC	No



**ACON laboratories, Inc.**

Bingchen Liu

10125 Mesa Rim Road

San Diego, CA, USA

Phone: 875-8021

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
ACON Laboratories, Inc Mission Ultra Cholesterol Monitoring System c4000	ACON Laboratories, Inc CHOL Total Cholesterol Test Strips	Ch0050002	ACON Laboratories, Inc NA	200801	Whole blood	1/28/2021	Beijing Institute of Geriatrics	Yes
ACON Laboratories, Inc Mission Ultra Cholesterol Monitoring System c8000	ACON Laboratories, Inc CHOL Total Cholesterol Test Strips	Ch0050002	ACON Laboratories, Inc NA	200801	Fingertip blood	1/28/2021	Beijing Institute of Geriatrics	Yes
ACON Laboratories, Inc Mission Ultra Cholesterol Monitoring System CCM- 111	ACON Laboratories, Inc CHOL Total Cholesterol Test Strips	Ch0050002	ACON Laboratories, Inc NA	200801	Whole blood	1/28/2021	Beijing Institute of Geriatrics	Yes
ACON Laboratories, Inc Mission Cholesterol Monitoring System CCM- 111	ACON Laboratories, Inc Mission Cholesterol Test Device	OCH0100002	ACON Laboratories, Inc NA	201008	venous serum	1/28/2021	Beijing Institute of Geriatrics	Yes
ACON Laboratories, Inc Mission Cholesterol Monitoring System CCM- 101	ACON Laboratories, Inc Mission Cholesterol Test Device	OCH0100002	ACON Laboratories, Inc NA	201008	whole blood	1/28/2021	Beijing Institute of Geriatrics	Yes
ACON Laboratories, Inc Mission Cholesterol Monitoring System CCM- 101	ACON Laboratories, Inc Mission Cholesterol Test Device	OCH0100002	ACON Laboratories, Inc NA	201008	Fingertip blood	1/28/2021	Beijing Institute of Geriatrics	Yes
ACON Laboratories, Inc Mission Cholesterol Monitoring System CCM- 111	ACON Laboratories, Inc Mission Cholesterol Test Device	OCH0100002	ACON Laboratories, Inc NA	201008	Plasma	1/28/2021	Beijing Institute of Geriatrics	Yes

**Roche Diagnostics GmbH**

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Nonnenwald 2, 82377 Penzberg

Penzberg, Germany

Phone: -

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Roche Diagnostics GmbH Cobas	Roche Diagnostics GmbH CHOL2	51947801	Roche Diagnostics GmbH CFAS	186488	Serum	2/25/2021	Erasmus MC	No

**Abbott Laboratories**  
 Dror Yahalom, PhD  
 1921 Hurd Dr., Irving, TX 75038  
 Irving, TX, USA  
 Phone: 972-518-6716

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Abbott Alinity	Abbott Total Cholesterol	62378UN20	Abbott MCC	35702FD01	Venous Serum	3/8/2021	CEQAL, Inc.	No
Abbott Architect c8000	Abbott Total Cholesterol	77044UN19	Abbott MCC	87719FD01	Venous Serum	3/8/2021	CEQAL, Inc.	No
Abbott Architect c4000	Abbott Total Cholesterol	77044UN19	Abbott MCC	87719FD01	Venous Serum	3/8/2021	CEQAL, Inc.	No
Abbott Architect c16000	Abbott Total Cholesterol	77044UN19	Abbott MCC	87719FD01	Venous Serum	3/8/2021	CEQAL, Inc.	No
Abbott Alinity	Abbott Total Cholesterol	22912UI00	Abbott ConCC	1055UE	Venous Serum	3/9/2021	CEQAL, Inc.	No
Abbott Architect c16000	Abbott Total Cholesterol	13927UI00	Abbott ConCC	1055UE	Venous Serum	3/9/2021	CEQAL, Inc.	No
Abbott Architect c8000	Abbott Total Cholesterol	13927UI00	Abbott ConCC	1055UE	-	3/9/2021	CEQAL, Inc.	No
Abbott Architect c4000	Abbott Total Cholesterol	13927UI00	Abbott ConCC	1055UE	Venous Serum	3/9/2021	CEQAL, Inc.	No

**SHANGHAI KEHUA BIO-ENGINEERING CO., LTD.**

Yu Chen

1189 NORTH QINZHOU ROAD, 200233, SHANGHAI, CHINA

Shanghai, China

Phone: 021-64850088-5001

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
SHANGHAI KEHUA LABORATORY SYSTEM CO. LTD KHB ZY Automatic Analyzer	SHANGHAI KEHUA BIO-ENGINEERING CO., LTD. KHB Total Cholesterol Kit(CHOD-PAP Method)	20200912	SHANGHAI KEHUA BIO-ENGINEERING CO., LTD. KHB Clinical Chemistry Calibrator level 2	20200412	Venous Serum	4/13/2021	Beijing Institute of Geriatrics	No
SHANGHAI KEHUA LABORATORY SYSTEM CO. LTD KHB ZY Automatic Analyzer	SHANGHAI KEHUA BIO-ENGINEERING CO., LTD. KHB Total Cholesterol Kit(CHOD-PAP Method)	20200912	SHANGHAI KEHUA BIO-ENGINEERING CO., LTD. KHB Clinical Chemistry Calibrator level 2	20200412	Venous Serum	4/13/2021	Beijing Institute of Geriatrics	No
SHANGHAI KEHUA LABORATORY SYSTEM CO. LTD KHB ZY Automatic Analyzer	SHANGHAI KEHUA BIO-ENGINEERING CO., LTD. KHB Total Cholesterol Kit(CHOD-PAP Method)	20200912	SHANGHAI KEHUA BIO-ENGINEERING CO., LTD. KHB Clinical Chemistry Calibrator level 2	20200412	Venous Serum	4/13/2021	Beijing Institute of Geriatrics	No

**PTS Diagnostics (Polymer Technology Systems, Inc.)**

Michelle Deal

4600 Anson Boulevard Whitestown, IN 46075

Whitestown, IN, USA

Phone: 870-5610 ext. 1102

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
PTS Diagnostics CardioChek Plus®	-	-	-	-	Whole Blood	6/14/2021	CEQAL, Inc.	Yes
PTS Diagnostics CardioChek PA®	-	-	-	-	Whole Blood	6/14/2021	CEQAL, Inc.	Yes

**Beckman Coulter**  
 Catherine Healy  
 O'Callaghans Mills  
 Lismeehan, Ireland  
 Phone: +353 (0) 65 683 1420

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Beckman Coulter AU480	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU480	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122M	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU480	Beckman Coulter OSR6x16	2578	Beckman Coulter DR0070	6102K01	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU680	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU680	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122M	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU680	Beckman Coulter OSR6x16	2578	Beckman Coulter DR0070	6102K01	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU5800	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU5800	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122M	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter AU5800	Beckman Coulter OSR6x16	2578	Beckman Coulter DR0070	6102K01	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter DxC700 AU	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter DxC700 AU	Beckman Coulter OSR6x16	2578	Beckman Coulter 66300	1122M	Serum	7/1/2021	Erasmus MC	No
Beckman Coulter DxC700 AU	Beckman Coulter OSR6x16	2578	Beckman Coulter DR0070	6102K01	Serum	7/1/2021	Erasmus MC	No

**Abbott Rapid Diagnostics Alere San Diego**

Silvia Milanez

9995 Summers Ridge Rd, San Diego CA 92121

San Diego, CA, USA

Phone: 471-9818

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Alere LDX	Alere Lipid Profile	422469	Alere Multy-Analite Controls	902931308	Serum	7/20/2021	CEQAL, Inc.	Yes

**Siemens Healthcare Diagnostics Inc.**  
Sheila Perez-Nunez  
P.O. Box 6101, M/S 104, Newark DE. 19714-6101  
Newark, DE, USA  
Phone: 1-302-631-9370

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
Siemens Healthcare Diagnostics Inc. ADVIA® 1800	Siemens Healthcare Diagnostics CHOL_c	533943 (611CH)	Siemens Healthcare Diagnostics Inc. ADVIA® Chemistry Calibrator	228148B	Serum	7/22/2021	CEQAL, Inc.	No
Siemens Healthcare Diagnostics Inc. ADVIA® 1800	Siemens Healthcare Diagnostics CHOL_2	546326 (619CH)	Siemens Healthcare Diagnostics Inc. ADVIA® Chemistry Calibrator	228148B	Serum	7/22/2021	CEQAL, Inc.	No



**HORIBA Medical**

Benoit Ferran

Parc euromedecine , Rue duCaducee BP 7290

Rue duCaducee, Solomon Islands

Phone: 33 (0) 4 99 65 30 05

<b>Instrument</b>	<b>Reagent</b>	<b>Reagent Lot(s)</b>	<b>Calibrator</b>	<b>Calibrator Lot(s)</b>	<b>Matrix</b>	<b>Certification Date</b>	<b>Network Laboratory</b>	<b>POC</b>
HORIBA Medical ABX Pentra C200	HORIBA Medical ABX Pentra Cholesterol CP	15907419	HORIBA Medical ABX Pentra MultiCal	2101401	-	8/11/2021	Erasmus MC	No
HORIBA Medical ABX Pentra C400	HORIBA Medical ABX Pentra Cholesterol CP	15907419	HORIBA Medical ABX Pentra MultiCal	2101401	-	8/11/2021	Erasmus MC	No
HORIBA Medical ABX Pentra 400	HORIBA Medical ABX Pentra Cholesterol CP	15907419	HORIBA Medical ABX Pentra MultiCal	2101401	-	8/11/2021	Erasmus MC	No