

List of NGSP Certified Methods
(updated 10/20, listed by date certified)

The NGSP has certified the following methods and reagents as having documented traceability to the Diabetes Control and Complications Trial Reference Method. Manufacturers are awarded Certificates of Traceability for successfully completing bias testing for specific methods, reagent lots, calibrator lots and instrumentation used. Traceability to the DCCT applies only to results from fresh blood samples. Analysis of processed (e.g. lyophilized) material may be subject to matrix effects and any comparisons to the DCCT using results from processed specimens should be made with caution.

The NGSP recommends that manufacturers certify their methods each year; the certificate of traceability expires after 1 year. During the year, it is the responsibility of the manufacturer to insure that the results of their method remain consistent over time throughout the year and between lots. It is not the intent of the NGSP to certify each lot of reagents.

Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
Nittobo Medical Co., LTD.	N-Assay LA HbA1c Nittobo on BM9130	Immuno-assay	Oct '20	N902A	J902A	0%, 4.6%, 8.5%, 11.9%, 15.9%	-	ReCCS ASRL#1
	N-Assay LA HbA1c Nittobo on H7180	Immuno-assay	Oct '20	N902A	J902A	0%, 4.6%, 8.5%, 11.9%, 15.9%	-	ReCCS ASRL#1
	N-Assay LA HbA1c Nittobo on TBA c8000	Immuno-assay	Oct '20	N902A	J902A	0%, 4.6%, 8.5%, 11.9%, 15.9%	-	ReCCS ASRL#1
JEOL Ltd.	BM Test HbA1c on JCA-BM6010/C	Enzymatic	Oct '20	927RFR, 927RFR, 846RLQ	927RFR	3.19, 14.86 µmol/L HbA1c; 99.9, 152.0 µmol/L Hb	-	ReCCS ASRL#1
Beckman-Coulter Inc.	HbA1c-Colorimetric DxC600 Platform	Immuno-assay	Oct '20	M001004	M001004, M001004, M003043	0.167, 0.483, 0.889, 1.537, 2.316 g/dL HbA1c; 19.61 g/dL Hb	-	Univ. of Missouri. SRL #9
	HbA1c-Colorimetric DxC800 Platform	Immuno-assay	Oct '20	M001004	M001004, M001004, M003043	0.167, 0.483, 0.889, 1.537, 2.316 g/dL HbA1c; 19.61 g/dL Hb	-	Univ. of Missouri. SRL #9
	HbA1c3-Colorimetric DxC600 Platform	Immuno-assay	Oct '20	M004002	M004002, M004002, M008014	0.162, 0.466, 0.859, 1.470, 2.284 g/dL HbA1c; 19.59 g/dL Hb	-	Univ. of Missouri. SRL #9
	HbA1c3-Colorimetric DxC800 Platform	Immuno-assay	Oct '20	M004002	M004002, M004002, M008014	0.162, 0.466, 0.859, 1.470, 2.284 g/dL HbA1c; 19.59 g/dL Hb	-	Univ. of Missouri. SRL #9
HORIBA Medical	Spotchem Banalyst HbA1c on SI-3620	Immuno-assay	Oct '20	2032HL0670	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1
	Banalyst Ace HbA1c on Banalyst Ace	Immuno-assay	Oct '20	2032HL069A	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1

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	B-analyst HbA1c on B- analyst S1	Immuno- assay	Oct '20	2032HL467O	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1
	Spotchem Banalyst HbA1c on SI-3610	Immuno- assay	Oct '20	2032HL067O	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1
	Banalyst HbA1c on Yumizen M100 Banalyst	Immuno- assay	Oct '20	2032HL069A	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1
Hitachi Chemical Diagnostics Systems Co., Ltd.	MetaboLead HbA1c on JCA- BM9130	Enzymatic	Oct '20	406 AJC, 406AJC	403AJD	2.40, 9.74 µmol/L HbA1c; 83.4, 120.6 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on DM- JACK	Enzymatic	Oct '20	406 AJC, 406AJC	403AJD	2.40, 9.74 µmol/L HbA1c; 83.4, 120.6 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on Hitachi 7180	Enzymatic	Oct '20	406 AJC, 406AJC	403AJD	2.40, 9.74 µmol/L HbA1c; 83.4, 120.6 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on LABOSPECT 006	Enzymatic	Oct '20	406 AJC, 406AJC	403AJD	2.40, 9.74 µmol/L HbA1c; 83.4, 120.6 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on TBA- 120FR	Enzymatic	Oct '20	406 AJC, 406AJC	403AJD	2.40, 9.74 µmol/L HbA1c; 83.4, 120.6 µmol/L Hb	-	ReCCS ASRL#1
DiaSys Diagnostic Systems GmbH	HbA1c net FS with onboard hemolysis on respons910 HbA1c (NGSP) =0.0915xHbA1c (IFCC)+2.15	Enzymatic	Sept'20	27949, 28244	28429, 28429	0.425, 1.12 g/dL HbA1c; 8.10, 15.2 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS with onboard hemolysis on JCA-BM6010/C HbA1c (NGSP) =0.0915xHbA1c (IFCC)+2.15	Enzymatic	Sept'20	27949, 28244	28429, 28429	0.425, 1.12 g/dL HbA1c; 8.10, 15.2 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS with onboard hemolysis on Sysmex BX- 3010 HbA1c (NGSP) =0.0915xHbA1c (IFCC)+2.15	Enzymatic	Sept'20	27949, 28244	27376, 27376	0.425, 1.21 g/dL HbA1c; 4.69, 15.0 g/dL Hb	-	European Reference Lab ESRL#10

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	HbA1c net FS with manual hemolysis on Hitachi 917 HbA1c (NGSP) =0.0915xHbA1c (IFCC)+2.15	Enzymatic	Sept'20	27949, 28244	28429, 28429	0.465, 1.20 g/dL HbA1c; 5.02, 15.0 g/dL Hb	-	European Reference Lab ESRL#10
	oneHbA1c IS on InnovaStar HbA1c (NGSP) =0.0915xHbA1c (IFCC)+2.15	Enzymatic	Sept'20	119, 27517	28963, 28964, 28965, 28966	30.8, 63.2, 116, 151 mmol/mol	-	European Reference Lab ESRL#10
Hitado GmbH	Super-ID HbA1c on SUPER ID clinchem	Enzymatic	Sept'20	119, 27517	28963, 28964, 28965, 28966	30.8, 63.2, 116, 151 mmol/mol	-	European Reference Lab ESRL#10
Dr. Müller Gerätebau GmbH	HbA1c ID on SUPER ID clinchem	Enzymatic	Sept'20	119, 27517	28963, 28964, 28965, 28966	30.8, 63.2, 116, 151 mmol/mol	-	European Reference Lab ESRL#10
Lansion Biotechnology Co., Ltd.	Fluorescence Immunoassay on LS-1100	Immuno-assay	Sept '20	0012001	-	-	-	Zhongshan Hospital ASRL#2
Erba Lachema s.r.o.	ERBA Hb-Vario	Ion-exchange HPLC	Sept '20	2003167, 2003167, 2003167	190597A, 190598A	5.73%, 12.67%	2003167	Univ. of Missouri. SRL #9
Horiba Medical	HbA1c WB Hemolysate – ABX Pentra C200 (Y=(0.2867*X) +2.471)	Immuno-assay	Sept '20	2000201	1900401	0.00, 1.80, 3.50, 4.74, 8.96, 13.20 µmol/L HbA1c; 68.29 µmol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – ABX Pentra 400 (Y=(0.3732*X) +2.461)	Immuno-assay	Sept '20	2000201	1900401	0.00, 1.65, 3.37, 4.93, 8.87, 14.65 µmol/L HbA1c; 68.29 µmol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Hemolysate – ABX Pentra 400 (Y=(0.419*X)+ 1.61)	Immuno-assay	Sept '20	2000201	1900401	0.00, 2.03, 3.51, 4.84, 8.28, 13.32 µmol/L HbA1c; 68.29 µmol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Hemolysate – Pentra C400 (Y=(0.42*X)+2.06)	Immuno-assay	Sept '20	2000201	1900401	0.00, 1.59, 3.13, 4.57, 7.97, 12.72 µmol/L HbA1c; 68.29 µmol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – Penta C400 (Y=(0.3784*X) +2.517)	Immuno-assay	Sept '20	2000201	1900401	0.00, 1.53, 3.28, 4.92, 8.78, 14.17 µmol/L HbA1c; 68.29 µmol/L Hb	-	European Reference Lab ESRL #10
	HbA1C – YUMIZEN C1200 (Y=(97.74*X)+ 1.937)	Immuno-assay	Sept '20	55841	55842, 56499	0.00, 3.25, 15.25 µmol/L HbA1c; 98.0, 154.2 µmol/L Hb	-	European Reference Lab ESRL #10

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EKF Diagnostics GmbH	^t Boronate- Affinity Quo- Test HbA1C	Boronate affinity	Sept '20	020588	-	-	-	European Reference Lab ESRL #11
	^t Boronate- Affinity Quo- Lab HbA1C	Boronate affinity	Sept '20	025770	-	-	-	European Reference Lab ESRL #11
Human Gesellschaft fuer Biochemica und Diagnostica mbH	^t Boronate- Affinity HumaMeter HbA1c	Boronate affinity	Sept '20	025774	-	-	-	European Reference Lab ESRL #11
Agappe Diagnostics Ltd.	^t AgA1C (Immunoturbidi metric method) on TBA 25 FR	Immuno- assay	Sept '20	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.80%, 9.80%, 13.30%, 16.80%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on TBA 120 FR	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
Agappe Diagnostics Ltd.	^t HbA1c (Immunoturbidi metric method) on Turbiquick	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on Mispa Nano	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on Mispa Nano Plus	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on Mispa Clinia	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on Mispa Clinia Plus	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on Mispa Ace	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t Nephelometry on Specific Protein Analyzer Mispa i2	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t Nephelometry on cartridge based Specific Protein Analyzer Mispa i3	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	^t AgA1C (Immunoturbidi metric method) on TMS 30i	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10

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	¹ AgA1C (Immunoturbidi metric method) on Mispa Viva	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa CXXL	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa CX4	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa CXL Pro	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on BS 390	Immuno- assay	Sept '20	40020039, 40020040, 10060001	29090579, 29090580, 29090581, 29090582	5.60%, 10.30%, 14.20%, 16.00%	-	European Reference Lab ESRL#10
Apex Biotechnology Corp.	Immunoagglutin ation on Eclipse A1c	Immuno- assay	Sept '20	S00402	-	-	-	ReCCS ASRL#1
MED TRUST Handelsges.m.b. H.	Boronate Affinity on Wellion BONA HbA1c	Boronate affinity	Aug '20	EAR200302 02	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on Wellion CLEVER HbA1c	Boronate affinity	Aug '20	EAZ200218 03	-	-	-	Zhongshan Hospital ASRL#2
Diazyme Laboratories, Inc.	Roche Modular P	Enzymatic	Aug '20	HAL05190, HA105190, HA205190	HAS103190, HAS203190	5.60%, 10.70%	-	Univ. of Minn SRL #10
Sugentech	Immunoassay on INCLIX	Immuno- assay	Aug '20	HBAT20003	-	-	-	ReCCS ASRL#1
Beckman Coulter Ireland Inc.	HbA1c Advanced B93009 Online Application on DxC700 AU	Immuno- assay	Aug '20	1049, M911090	1049	0.096, 0.288, 0.540, 1.000, 1.468 mmol/L HbA1c; 8.85 mmol/L Hb	-	European Reference Lab ESRL#13
	HbA1c Advanced B93009 Manual Application on DxC700 AU	Immuno- assay	Aug '20	1049, M911090	1049	0.090, 0.291, 0.543, 1.012, 1.497 mmol/L HbA1c; 8.85 mmol/L Hb	-	European Reference Lab ESRL#13
	HbA1c Advanced B93009 Manual Application on AU680	Immuno- assay	Aug '20	1049, M911090	1049	0.090, 0.291, 0.543, 1.012, 1.497 mmol/L HbA1c; 8.85 mmol/L Hb	-	European Reference Lab ESRL#13
	HbA1c Advanced B93009 Manual Application on AU5800	Immuno- assay	Aug '20	1049, M911090	1049	0.090, 0.291, 0.543, 1.012, 1.497 mmol/L HbA1c; 8.85 mmol/L Hb	-	European Reference Lab ESRL#13
Guangzhou Wondfo Biotech Co., Ltd.	Fluorescence on Finicare FIA Meter Plus	Immuno- assay	Aug '19*	W20713402A	-	-	-	ReCCS ASRL#1

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	Fluorescence on Fineware FIA Meter	Immuno- assay	Aug '19*	W20713402A	-	-	-	ReCCS ASRL#1
Nihon Kohden Corporation	@Celltac Chemi HbA1c N on CHM-4100	Immuno- assay	July '20	89005	CEN008	0.0%, 4.4%, 6.7%, 9.6%, 12.9%	-	ReCCS ASRL#1
Furuno Electric Co. Ltd.	Centronic HbA1c turbidimetric immunoassay on CA-800	Immuno- assay	July '20	HF04201E- 005, HF04201E- 005, HF04201EL Y-005	906005	0.0%, 5.5%, 8.0%, 11.3%, 15.5%	-	ReCCS ASRL#1
Boditech Med Inc.	Immuno-assay on AFIAS-1	Immuno- assay	July '20	AAQCB12F	906004	5.1%, 7.2%, 10.0%, 13.0%	-	ReCCS ASRL#1
	Immuno-assay on AFIAS-6	Immuno- assay	July '20	AAQCB12F	906004	5.1%, 7.2%, 10.0%, 13.0%	-	ReCCS ASRL#1
	Immuno-assay on ichroma Reader	Immuno- assay	July '20	AAQCE87	906004	5.5%, 7.5%, 10.5%, 13.8%	-	ReCCS ASRL#1
	Immuno-assay on ichroma II	Immuno- assay	July '20	AAQCE87	906004	5.5%, 7.5%, 10.5%, 13.8%	-	ReCCS ASRL#1
Getein Biotech, Inc.	Immunofluores- cence Assay on Getein 1100	Immuno- assay	July '20	YBC20071	-	-	-	Zhongshan Hospital ASRL#2
	Immunofluores- cence Assay on Getein 1600	Immuno- assay	July '20	P01920009	-	-	-	Zhongshan Hospital ASRL#2
	Colloidal Gold on FIA8600/8000	Immuno- assay	July '20	6BC20035	-	-	-	Zhongshan Hospital ASRL#2
Instrumentation Laboratory	HbA1c Enzymatic (Manual pretreatment) on Ilab Taurus (%NGSP=HbA1c/T Hb*91.48+2.152)	Enzymatic	July '20	I0520178	I0520179, I0520179	3.83, 15.46 µmol/L HbA1c; 98.2, 146.5 µmol/L Hb	-	European Reference Lab ESRL#14
	HbA1c Enzymatic (Manual pretreatment) on Ilab Aries (%NGSP=HbA1c/T Hb*91.48+2.152)	Enzymatic	July '20	I0520178	I0520179, I0520179	3.83, 15.46 µmol/L HbA1c; 98.2, 146.5 µmol/L Hb	-	European Reference Lab ESRL#14
Hunan Yonghe- Sun Biotechnology Co., Ltd	YH-30 HPLC	Ion- exchange HPLC	June '20	20191105, 20200225	20191223, 20191223	5.60%, 10.80%	20200225	Zhongshan Hospital ASRL#2
Changsha Sinocare Inc.	PCH-100	Immuno- assay	June '20	0A0311	-	-	-	Zhongshan Hospital ASRL#2
	iCARE-2000	Immuno- assay	June '20	09P1219	-	-	-	Zhongshan Hospital ASRL#2
	iCARE-2100	Immuno- assay	June '20	09P1219	-	-	-	Zhongshan Hospital ASRL#2
Sebia	Capillarys HbA1c on Capillarys 2 Flex Piercing %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	June '20	26097/01, 31108/01, 02058/01	06029/01, 07029/01	36.5, 86.9 mmol/mol	-	European Reference Lab ESRL#10

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	Minicap HbA1c %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	June '20	18020/80, 30107/01, 26067/01	06115/01, 09115/01	36.8, 83.8 mmol/mol	-	European Reference Lab ESRL#10
	CAPI 3 HbA1c on Capillary 3 %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	June '20	18020/80, 07059/80, 02058/01	06029/01, 07029/01	36.5, 86.9 mmol/mol	-	European Reference Lab ESRL#10
Human Gesellschaft für Biochemica und Diagnostica mbH	HumanNex A1c	Ion- exchange HPLC	June '20	200113, 200113, 200113	20190723, 20190723	5.83%, 11.03%	200113	Univ. of Missouri. SRL #9
Shanghai Medconn Medical Technology Co. Ltd (China)	HPLC on MQ- 2000PT	Ion- exchange HPLC	June '20	PTHbA1c20 0113Z, PTHbA1c20 0113Z, PTHbA1c20 0113Z	20191030	5.88%, 11.18%	PTHbA1c20 0113Z	Univ. of Missouri. SRL #9
Shanghai Medconn Medical Technology Co. Ltd (China)	HPLC on MQ- 6000	Ion- exchange HPLC	June '20	20191209G, 20191209G, 20191209G	20191030	5.77%, 10.88%	20191209G	Univ. of Missouri. SRL #9
ACON Laboratories, Inc. and Acon Biotech (Hangzhou) Co., Ltd.	On Call MultiPro System-HbA1c	Immuno- assay	June '20	OGHB9110 001	-	-	-	Zhongshan Hospital ASRL#2
	On Call A1c	Boronate affinity	June '20	gHb9110002	-	-	-	Zhongshan Hospital ASRL#2
Greencross Medical Science	Boronate Affinity on Greencare-A1c; also sold as QDx A1c Advance, Pocket Chem A1c Advanced, Horron A1c and Hemo G Smart	Boronate affinity	June '20	R10C061	-	-	-	Univ. of Missouri. SRL #9
Ortho Clinical Diagnostics	%A1c on Vitros 5,1 FS	Immuno- assay	June '20	8191	3149	0.168, 0.898, 1.82, 4.031 g/dL HbA1c; -0.756, 3.001, 7.4, 16.298 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 4600	Immuno- assay	June '20	8191	3149	0.167, 0.887, 1.786, 4.029 g/dL HbA1c; -0.756, 3.001, 7.4, 16.298 g/dL Hb	-	Univ. of Missouri. SRL #9

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	%A1c on Vitros 5600	Immuno- assay	June '20	8191	3149	0.167, 0.887, 1.786, 4.029 g/dL HbA1c; -0.756, 3.001, 7.4, 16.298 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros XT 7600	Immuno- assay	June '20	8191	3149	0.167, 0.887, 1.786, 4.029 g/dL HbA1c; -0.756, 3.001, 7.4, 16.298 g/dL Hb	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics	DCA Vantage	Immuno- assay	June '20	0654030, 0655030	-	-	-	Univ. of Missouri. SRL #9
Wuxi Biohermes Bio & Medical Technology Co., Ltd.	Boronate Affinity on A1cChek Express Glycohemoglobin Analysis System	Boronate affinity	June '20	EAZ20021803	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on A1C EZ 2.0 Glycohemoglobin Analysis System	Boronate affinity	June '20	EAP20031705	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on A1cChek Pro Glycohemoglobin Analysis System	Boronate affinity	June '20	EAV20030304	-	-	-	Zhongshan Hospital ASRL#2
Wuxi Biohermes Bio & Medical Technology Co., Ltd.	Boronate Affinity on GluCoA1c Blood Glucose and Glycohemoglobin Analysis System	Boronate affinity	June '20	EAG20031601	-	-	-	Zhongshan Hospital ASRL#2
	HC-880 Automatic Glycohemoglobin Analysis System	Ion- exchange HPLC	June '20	191216-C030	2020032901	5.18%, 9.63%	G191115- C030	Zhongshan Hospital ASRL#2
Roche Diagnostics GmbH	TQ HbA1c Gen. 3 on cobas c 501 / c 502 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '20	452526, 443461	348467	0.138, 0.355, 0.703, 0.980, 1.339, 1.913 mmol/L HbA1c; 1.370, 7.387 mmol/L Hb	-	European Reference Lab ESRL #13
	TQ HbA1c Gen. 3 Hemolysate on cobas c503 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '20	382581, 461472, 436983	348467	0.156, 0.357, 0.675, 0.923, 1.265, 1.787mmol/L HbA1c; 1.43, 7.71 mmol/L Hb	-	European Reference Lab ESRL #13
	TQ HbA1c Gen. 3 whole blood on cobas c503 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '20	382581, 461472	348467	0.153, 0.358, 0.682, 0.934, 1.283, 1.814 mmol/L HbA1c; 1.43, 7.71 mmol/L Hb	-	European Reference Lab ESRL #13

List of NGSP Certified Methods (Updated 10/20, listed by date certified)

Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
	TQ HbA1c Gen. 3 hemolysate on cobas c513 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '20	437338, 436983, 451234	348467	0.151, 0.353, 0.673, 0.923, 1.268, 1.794 mmol/L HbA1c; 1.43, 7.71 mmol/L Hb	-	European Reference Lab ESRL #13
	TQ HbA1c Gen. 3 whole blood on cobas c513 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '20	437338, 451234	348467	0.147, 0.353, 0.679, 0.933, 1.284, 1.820 mmol/L HbA1c; 1.43, 7.71 mmol/L Hb	-	European Reference Lab ESRL #13
Tosoh Corporation	¹ G7 HbA1c Standard Analysis Mode (1.2 min) HLC- 723G7	Ion- exchange HPLC	June '20	P7-101E, P7-201E, 7- 302E, HW- 30E	ZS9002	5.84%, 10.71%	P	Univ. of Missouri. SRL #9
	¹ G8 HbA1c Standard Analysis Mode Ver. 5.24 (1.0 min) HLC- 723G8	Ion- exchange HPLC	June '20	R8-104E, R8-204E, 8- 303E, HW- 30E	ZS9002	5.84%, 10.71%	R	Univ. of Missouri. SRL #9
	¹ G9 HbA1c, HLC-723G9, Ver. 1.10	Ion- exchange HPLC	June '20	D9-105E, D9-202D, 9- 302E, HW- 30E	JS8003	5.85%, 11.02%	D	Univ. of Missouri. SRL #9
Tosoh Corporation	G8 HbA1c Variant Analysis Mode Ver. 5.24 (1.6 min), HLC- 723G8	Ion- exchange HPLC	June '20	N8-112E, N8-212E, N8-309E, HW-30E	ZS9002	5.84%, 10.71%	N	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode (1.6 min), HLC-723G8	Ion- exchange HPLC	June '20	N8-112E, N8-212E, N8-309E, HW-30E	ZS9002	5.84%, 10.71%	N	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode Ver.5.23 (1.6 min), HLC- 723G8	Ion- exchange HPLC	June '20	N8-112E, N8-212E, N8-309E, HW-30E	ZS9002	5.84%, 10.71%	N	Univ. of Missouri. SRL #9
	G7 HbA1c Variant Analysis Mode Ver.3.01 (2.2 min), HLC- 723G7	Ion- exchange HPLC	June '20	M7-102E, M7-201E, M7-302E, HW-30E	ZS9002	5.84%, 10.71%	M	Univ. of Missouri. SRL #9
	¹ GX, Ver.1.24 HLC-723GX	Ion- exchange HPLC	June '20	BX-101E, BX-201E, BX-301E, HW-16E	ZS9002	5.84%, 10.71%	B	Univ. of Missouri. SRL #9
	¹ G11, Standard Analysis Mode Ver.3.06 (0.5 min), HLC- 723G11	Ion- exchange HPLC	June '20	F1-101E, F1-201E, 1- 305E, HW- 30E	ZS9002	5.84%, 10.71%	F	Univ. of Missouri. SRL #9
	¹ G11, Variant Analysis Mode Ver.3.06 (1.0 min), HLC- 723G11	Ion- exchange HPLC	June '20	B1-101F, B1-201F, B1-306E, HW-30E	ZS9002	5.84%, 10.71%	B	Univ. of Missouri. SRL #9

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
Goldsite Diagnostics Inc.	Aristo	Immuno- assay	June '19*	0572190607, 0572190607, 0572190607	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
	HbA1c on GSH- 60	Boronate affinity	June '19*	20190906, 20190906, 20190906	ZS7002, ZS7002	5.84%, 10.53%	-	ReCCS ASRL#1
	HbA1c on Nephstar	Immuno- assay	June '19*	0172190215, 0172190215, 0172190215, 0172190215	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
	HbA1c on Nephstar-Plus	Immuno- assay	June '19*	0272190116, 0272190116, 0272190116, 0272190116	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
	HbA1c on Omlipo	Immuno- assay	June '19*	0372200108, 0372200108, 0372200108	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
	HbA1c on GNS- 400	Immuno- assay	June '19*	1172190215, 1172190215, 1172190215, 1172190215	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
	HbA1c on Alcgo	Immuno- assay	June '19*	20190201	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
	HbA1c on GPP- 100	Immuno- assay	June '19*	1072190216, 1072190216, 1072190216, 1072190216	ALO2961	5.50%, 8.10%, 11.50%, 16.30%	-	ReCCS ASRL#1
Genrui Biotech Inc	Nephelometry on Specific Protein Analyzer PA50/PA54	Immuno- assay	May '19*	20190201	-	-	-	ReCCS ASRL#1
	Nephelometry on Fully-auto Specific Protein Analyzer PA120	Immuno- assay	May '19*	20190201	-	-	-	ReCCS ASRL#1
Sakae Corporation	MEDIDAS HbA1c on A1c GEAR	Immuno- assay	May '20	462002	20A27	0.0%, 4.6%, 7.0%, 10.2%, 14.0%	-	ReCCS ASRL#1
	MEDIDAS HbA1c on A1c iGear	Immuno- assay	May '20	462002	20A27	0.0%, 4.6%, 7.0%, 10.2%, 14.0%	-	ReCCS ASRL#1
	MEDIDAS HbA1c on A1c iGear Quick	Immuno- assay	May '20	462002	20A27	0.0%, 4.6%, 7.0%, 10.2%, 14.0%	-	ReCCS ASRL#1
Shenzhen Labnovation Technologies, Inc.	Boronate Affinity Chromatography on LD-100, LD- 120, LD-160	Boronate Affinity	May '20	20191212	20190626, 20190626	5.6%, 9.2%	-	ReCCS ASRL#1

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
Home Access Health Corporation	Red blood cell-serum strip-based cassettes on Beckman AU680 with B00389 reagents %HbA1c=A1c/TH b*89.95+2.09	Immuno- assay	May '20	M911090, 1048A	1048A	0.174, 0.464, 0.847, 1.550, 2.364 g/dL HbA1c; 13.74 g/dL Hb	-	Univ. of Missouri. SRL #9
Abbott Diagnostics	HbA1c (Hemolysate) on Architect c8000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '20	55739UQ06, 55739UQ06, 55739UQ	55353UQ05, 55353UQ05	5.30%, 11.00%	-	Univ. of Missouri. SRL #9
	HbA1c (Hemolysate) on Architect c4000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '20	55739UQ06, 55739UQ06, 55739UQ	55353UQ05, 55353UQ05	5.30%, 11.00%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Architect c4000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '20	55739UQ06, 55739UQ06, 55739UQ	55353UQ05, 55353UQ05	5.30%, 11.00%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Architect c8000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '20	55739UQ06, 55739UQ06, 55739UQ	55353UQ05, 55353UQ05	5.30%, 11.00%	-	Univ. of Missouri. SRL #9
Abbott Diagnostics	HbA1c (Hemolysate) on Alinity c %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '20	55739UQ06, 55739UQ06, 55739UQ	55353UQ05, 55353UQ05	5.30%, 11.00%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Alinity c analyzer %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '20	55739UQ06, 55739UQ06, 55739UQ	55353UQ05, 55353UQ05	5.30%, 11.00%	-	Univ. of Missouri. SRL #9
Bio-Rad Laboratories	D-10 Dual A2/F/A1c	Ion- exchange HPLC	Apr '20	AA90362, AA90363, AA90366	AA90394, AA90395	5.3%, 10.2%	D70468AB	Univ. of Minn SRL #10
Siemens Healthcare Diagnostics Inc.	Dimension Flex HB1C on Dimension ExL	Immuno- assay	Apr '20	GB0351	GB0351	0.10, 0.59, 1.12, 1.93, 2.35 g/dL HbA1c; 12.57, 12.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Flex HB1C on Dimension RxL Max	Immuno- assay	Apr '20	GB0351	GB0351	0.10, 0.59, 1.12, 1.93, 2.35 g/dL HbA1c; 12.57, 12.35 g/dL Hb	-	Univ. of Missouri. SRL #9

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
	Dimension Flex HB1C on Dimension Xpand	Immuno- assay	Apr '20	GB0351	GB0351	0.10, 0.59, 1.12, 1.93, 2.35 g/dL HbA1c; 12.57, 12.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Atellica CH	Enzymatic	Apr '20	190253, 190253, 190253, 190253	9KS006, 9KS006	3.29, 13.94 µmol/L HbA1c; 97.8, 146.8 µmol/L Hb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia XPT	Enzymatic	Apr '20	150, 150, 150, 150	9LS004, 9LS004	2.87, 13.70 µmol/L HbA1c; 96.8, 148.1 µmol/L Hb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 2400	Enzymatic	Apr '20	150, 150, 150, 150	9LS004, 9LS004	2.87, 13.70 µmol/L HbA1c; 96.8, 148.1 µmol/L Hb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 1800	Enzymatic	Apr '20	150, 150, 150, 150	9LS004, 9LS004	2.87, 13.70 µmol/L HbA1c; 96.8, 148.1 µmol/L Hb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia XPT	Enzymatic	Apr '20	150, 150, 150, 150	9LS004, 9LS004	2.87, 13.70 µmol/L HbA1c; 96.8, 148.1 µmol/L Hb	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics Inc	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 2400	Enzymatic	Apr '20	150, 150, 150, 150	9LS004, 9LS004	2.87, 13.70 µmol/L HbA1c; 96.8, 148.1 µmol/L Hb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 1800	Enzymatic	Apr '20	150, 150, 150, 150	9LS004, 9LS004	2.87, 13.70 µmol/L HbA1c; 96.8, 148.1 µmol/L Hb	-	Univ. of Missouri. SRL #9
Nova Biomedical	Allegro, Immunoassay	Immuno- assay	Apr '20	19353015	-	-	-	Univ. of Missouri. SRL #9
SD Biosensor, Inc.	MultiCare Analyzer	Immuno- assay	Apr '20	MS1019045	-	-	-	ReCCS ASRL#1
Wiener Laboratorios S.A.I.C.	¹ HbA1c v.2 Turbitest AA on CB 350i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '20	350430, 350400, 350340, 354470	348600	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	¹ HbA1c v2 Turbitest AA on CT600i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '20	350430, 350400, 350340, 354470	348600	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
	[†] HbA1c v2 Turbitest AA on CM 250 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '20	350430, 350400, 350340, 354470	348600	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	[†] HbA1c v2 Turbitest AA on CMD 600 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '20	350430, 350400, 350340, 354470	348600	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	[†] HbA1c v2 Turbitest AA on CMD 800i X1 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '20	350430, 350400, 350340, 354470	348600	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
Fujirebio Inc.	[†] Rapidia Auto HbA1c-L on BiOLis24i Premium	Immuno- assay	Apr '20	QF91105, RF91105, SF90703	VF90703	0.0%, 4.3%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on JCA-BM9130	Immuno- assay	Apr '20	QF91105, RF91105, SF90703	VF90703	0.0%, 4.3%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] AU-Synchron Reagent HbA1c on AU680	Immuno- assay	Apr '20	F9A022, F9A022, H2A015	H1A023	0.0%, 4.3%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on AU680	Immuno- assay	Apr '20	QF91105, RF91105, SF90703	VF90703	0.0%, 4.3%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on Hitachi 7180	Immuno- assay	Apr '20	QF91105, RF91105, SF90703	VF90703	0.0%, 4.3%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on TBA-120FR	Immuno- assay	Apr '20	QF91105, RF91105, SF90703	VF90703	0.0%, 4.3%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
Abbott Diagnostics Technologies AS	Afinion HbA1c / Afinion AS100 Analyzer	Boronate affinity	Apr '20	10206198	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c Dx / Afinion AS100 Analyzer	Boronate affinity	Apr '20	10201094	-	-	-	European Reference Lab ESRL #11
	NycoCard HbA1c on NycoCard Reader II	Boronate affinity	Apr '20	10205489, 10204605, 10205933	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c Dx / Afinion 2 Analyzer	Boronate affinity	Apr '20	10201094	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c / Afinion 2 Analyzer	Boronate affinity	Apr '20	10206198	-	-	-	European Reference Lab ESRL #11
Arkray, Inc.	[†] ADAMS A1c HA-8160 VP mode	Ion- exchange HPLC	Apr '20	19100931, 19072512, 19100433, 19101714	S9003	5.2%, 10.6%;	9LY-1R	ReCCS ASRL#1
	[†] ADAMS A1c HA-8160 TP mode	Ion- exchange HPLC	Apr '20	19100931, 19072512, 19102334, 19101735, 19101714	S9003	5.2%, 10.6%;	9LW-4R	ReCCS ASRL#1

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
	† ADAMS A1c HA-8160 (Ver.4)	Ion- exchange HPLC	Apr '20	19101857, 19062158, 19032959, 19051555	S9003	5.2%, 10.6%;	9GF-1AR	ReCCS ASRL#1
	† ADAMS A1c HA-8170	Ion- exchange HPLC	Apr '20	19101857, 19062158, 19032959, 1951555	S9003	5.2%, 10.6%;	9LG-1R	ReCCS ASRL#1
	† ADAMS A1c HA-8180	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190918105	S9003	5.2%, 10.6%;	9B078N	ReCCS ASRL#1
	ADAMS A1c HA-8180V Variant mode	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190315140, 190918105	S9003	5.2%, 10.6%;	9B143U	ReCCS ASRL#1
	† ADAMS A1c HA-8180V Fast mode	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190315140, 190918105	S9003	5.2%, 10.6%;	9B143U	ReCCS ASRL#1
	† ADAMS A1c HA-8180T	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190514160, 190918105	S9003	5.2%, 10.6%;	9LL-1AR	ReCCS ASRL#1
	† ADAMS HYBRID AH- 8290	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190918105	S9003	5.2%, 10.6%;	9B078N	ReCCS ASRL#1
	† ADAMS A1c HA-8181	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190918105	S9003	5.2%, 10.6%;	9B078N	ReCCS ASRL#1
	† ADAMS HYBRID AH- 8280	Ion- exchange HPLC	Apr '20	9L1001, 9E1002, 9I1044	CA89F93	5.3%, 10.7%	9K398N	ReCCS ASRL#1
Arkray, Inc.	† ADAMS A1c HA-8190V Variant mode	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190717364, 190918105	S9003	5.1%, 10.7%;	9LV-1AR	ReCCS ASRL#1
	† ADAMS A1c HA-8190V Fast mode	Ion- exchange HPLC	Apr '20	190620101, 190612102, 190717364, 190918105	S9003	5.1%, 10.6%;	9LV-1AR	ReCCS ASRL#1
	† CinQ HbA1c on JCA- BM6010 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '20	MFA16, MFE17	CAC8J22	2.46, 7.40 µmol/L HbA1c (IFCC); 95.9 µmol/L Hb (IFCC)	-	ReCCS ASRL#1
	† CinQ HbA1c on TBA-120FR HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '20	MFA16, MFE17	CAC8J22	2.46, 7.40 µmol/L HbA1c (IFCC); 95.9 µmol/L Hb (IFCC)	-	ReCCS ASRL#1
	† CinQ HbA1c on JCA- BM9130 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '20	MFA16, MFE17	CAC8J22	2.46, 7.40 µmol/L HbA1c (IFCC); 95.9 µmol/L Hb (IFCC)	-	ReCCS ASRL#1

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
	[†] CinQ HbA1c on JCA-ZS050 HbA1c%(NGSP)=0.0915*HbA1c/Hb*1000(IFCC)+2.15	Enzymatic	Apr '20	MFA16, MFE17	CAC8J22	2.46, 7.40 μmol/L HbA1c (IFCC); 95.9 μmol/L Hb (IFCC)	-	ReCCS ASRL#1
	[†] CinQ HbA1c on Hitachi LABOSPECT 006 HbA1c%(NGSP)=0.0915*HbA1c/Hb*1000(IFCC)+2.15	Enzymatic	Apr '20	HLS27	CAC8J22	2.46, 7.40 μmol/L HbA1c (IFCC); 95.9 μmol/L Hb (IFCC)	-	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380	Ion-exchange HPLC	Apr '20	190620101, 190612102, 190918105	S9003	5.2%, 10.6%;	9B078N	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380V Fast mode	Ion-exchange HPLC	Apr '20	190620101, 190612102, 190315140, 190918105	S9003	5.2%, 10.6%;	9B143U	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380V Variant mode	Ion-exchange HPLC	Apr '20	190620101, 190612102, 190315140, 190918105	S9003	5.2%, 10.6%;	9B143U	ReCCS ASRL#1
	[†] ADAMS A1c HA-8182	Ion-exchange HPLC	Apr '20	9L1001, 9J1002, 9K1043	CA89F93	5.3%, 10.7%	9G692N	ReCCS ASRL#1
	@ The Lab 001 HbA1c%(NGSP)=0.915*HbA1c/Hb*1000(IFCC)+2.15	Capillary Electrophoresis	Apr '20	CE119M1A1, CE119M2A1	-	-	-	ReCCS ASRL#1
Shenzhen Microprofit Biotech Co., Ltd.	Immunofluorescence Chromatograph on MF-T1000 Dry-Type Immunofluorescence Quantitative Analyzer	Immuno-assay	Mar '20	20190903, 20190904, 20191001	20190903, 20190903, 20190904, 20190904, 20191001, 20191001	6.52%, 9.50%, 6.51%, 9.50%, 6.49%, 9.52%	-	Zhongshan Hospital ASRL#2
Thermos Fisher Scientific Oy	HbA1c for Indiko, ref 981947, 981948 (91.5*HbA1c/Hb*+2.15)	Immuno-assay	Mar '20	S645, S372	S127	1.5824 mmol/L HbA1c; 8.626 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c for Konelab, ref 981947, 981948 (91.5*HbA1c/Hb*+2.15)	Immuno-assay	Mar '20	S645, S372	S127	1.5824 mmol/L HbA1c; 8.626 mmol/L Hb	-	European Reference Lab ESRL #13
UMA Co., Ltd	MEASURE HbA1c II on Hitachi 7180	Immuno-assay	Mar '20	328 AIL, 194AJA	127AJA	0.0%, 5.5%, 8.4%, 11.5%, 15.4%	-	ReCCS ASRL#1
Fujikura Kasei Co., Ltd	HbA1c-FW on Hitachi 7180	Immuno-assay	Mar '20	W20A091W	W19H022W	4.6%, 8.5%, 11.9%, 15.9%	-	ReCCS ASRL#1
	HbA1c-F on Hitachi 7180	Immuno-assay	Mar '20	W19I191C	W19H021C	4.6%, 8.6%, 12.2%, 16.4%	-	ReCCS ASRL#1
J. Mitra & Co. Pvt Limited	Fluorescence immunoassay on i-Quant Analyser	Immuno-assay	Mar '20	HBQ/XI/101219	-	-	-	European Reference Lab ESRL #10

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
PTS Diagnostics	A1Cnow+; A1Cnow SELF-CHECK	Immuno- assay	Mar '20	1810914	-	-	-	Univ. of Missouri. SRL #9
Trinity Biotech	Boronate Affinity HPLC on PDQ	Boronate affinity HPLC	Mar '20	8384, 10330, 10267, 8380	9951, 9952	5.1%, 11.7%	8069	Univ. of Missouri. SRL #11
	Boronate Affinity HPLC on ultra2	Boronate affinity HPLC	Mar '20	8384, 10330, 10267, 10502	9851, 9852	5.3%, 12.4%	8069	Univ. of Missouri. SRL #11
	Boronate Affinity HPLC on Premier Hb9210	Boronate affinity HPLC	Mar '20	10333, 10330, 10267, 8993	9851, 9852	5.1%, 11.8%	10002	Univ. of Missouri. SRL #11
Sekisui Medical Co., Ltd.	[†] L type Norudia N HbA1c on Hitachi LST008	Enzymatic	Mar '20	116RJQ, 116RJQ, 117RJQ	112RIQ	3.46, 14.95 µmol/L HbA1c; 101.2, 147.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] L type Norudia N HbA1c on Hitachi LST006	Enzymatic	Mar '20	116RJQ, 116RJQ, 117RJQ	112RIQ	3.46, 14.95 µmol/L HbA1c; 101.2, 147.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] Norudia N HbA1c on Hitachi 7170S	Enzymatic	Mar '20	116RHQ, 116RHQ, 117RJQ	123RIQ	3.34, 15.18 µmol/L HbA1c; 100.1, 156.9 µmol/L Hb	-	ReCCS ASRL#1
Sekisui Medical Co., Ltd.	[†] Norudia N HbA1c on EV800	Enzymatic	Mar '20	116RHQ, 116RHQ, 117RJQ	123RIQ	3.34, 15.18 µmol/L HbA1c; 100.1, 156.9 µmol/L Hb	-	ReCCS ASRL#1
	[†] Norudia N HbA1c on JCA- BM9130	Enzymatic	Mar '20	116RHQ, 116RHQ, 117RJQ	123RIQ	3.34, 15.18 µmol/L HbA1c; 100.1, 156.9 µmol/L Hb	-	ReCCS ASRL#1
	[†] Adams A1c mini	Ion- exchange HPLC	Mar '20	1902050025	1902040018	5.29%, 11.28%	1005003319	ReCCS ASRL#1
	[†] RC20	Ion- exchange HPLC	Mar '20	1902050025	1902040018	5.29%, 11.28%	180400222	ReCCS ASRL#1
	[†] Norudia N HbA1c on TBA- 120FR	Enzymatic	Mar '20	116RHQ, 116RHQ, 117RJQ	123RIQ	3.34, 15.18 µmol/L HbA1c; 100.1, 156.9 µmol/L Hb	-	ReCCS ASRL#1
	[†] (RE) Norudia N HbA1c on TBA-nx360	Enzymatic	Mar '20	102RLQ, 102RLQ, 117RJQ	105RIQ	3.36, 15.84 µmol/L HbA1c; 106.1, 165.6 µmol/L Hb	-	ReCCS ASRL#1
	[†] (RE) Norudia N HbA1c on Hitachi 7180	Enzymatic	Mar '20	106RLQ, 106RLQ, 117RJQ	105RIQ	3.36, 15.84 µmol/L HbA1c; 106.1, 165.6 µmol/L Hb	-	ReCCS ASRL#1

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
	[†] HbA1c Auto TBA on TBA- 120FR	Enzymatic	Mar '20	116RHQ, 116RHQ, 117RJQ	111RIQ	3.34, 15.18 µmol/L HbA1c; 100.1, 156.9 µmol/L Hb	-	ReCCS ASRL#1
	[†] Norudia HbA1c II on JCA-BM9130	Enzymatic	Mar '20	191018, 191018	123RIQ	3.82, 16.74 µmol/L HbA1c; 104.6, 154.1 µmol/L Hb	-	ReCCS ASRL#1
	[†] RC-W FAST Mode	Ion- exchange HPLC	Mar '20	1907110001	1906100001	5.41%, 11.06%	1912160026	ReCCS ASRL#1
	[†] RC-W Variant Mode	Ion- exchange HPLC	Mar '20	1907110001	1906100001	5.36%, 11.06%	1912160026	ReCCS ASRL#1
Hitachi Chemical Diagnostics	[†] Determiner L HbA1c on DM- JACK	Immuno- assay	Mar '20	403AII, 403AII	400AIJ	0.0%, 4.5%, 6.9%, 9.8%, 13.1%	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on JCA- BM9130	Immuno- assay	Mar '20	403AII, 403AII	400AIJ	0.0%, 4.5%, 6.8%, 9.7%, 13.2%	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on Hitachi 7180	Immuno- assay	Mar '20	403AII, 403AII	401AIJ	0.0%, 4.3%, 6.9%, 9.7%, 13.3%	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on TBA- 120FR	Immuno- assay	Mar '20	403AII, 403AII	400AIJ	0.0%, 4.5%, 6.8%, 9.7%, 13.2%	-	ReCCS ASRL#1
Hitachi Chemical Diagnostics	[†] Determiner HbA1c on FUNOTEC FC300	Immuno- assay	Mar '20	403AII, 403AII	400AIJ	0.0%, 4.5%, 6.8%, 9.7%, 13.2%	-	ReCCS ASRL#1
Green Cross Medis Corp.	Boronate Affinity on Cera-Stat 4000 (Merilyzer Merichack Analyzer)	Boronate Affinity	Feb '20	HC4339J11R1, HC4339J11R2, HC4339J11EW	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity on Cera-Stat 2000 (QDx A1c Analyzer)	Boronate Affinity	Feb '20	HC2339K18R1, HC2339K18R2, HC2339K18EW	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity LabonaCheck A1c HbA1c Analyzer (Model: MH200), A1Card HbA1c Analyzer	Boronate Affinity	Feb '20	HM2339J23R1, HM2339J23R2, HM2339J23EW,	-	-	-	Univ. of Missouri. SRL #9
Shenzhen Labnovation Technologies, Inc.	HPLC on LD- 500, LD-510, LD-520	Ion- exchange HPLC	Feb '20	20190416	20190626, 20190626	5.6%, 9.2%	-	ReCCS ASRL#1
	HPLC on LD- 560, LD-561, LD-562	Ion- exchange HPLC	Feb '20	20190712	20190626, 20190626	5.7%, 9.2%	-	ReCCS ASRL#1
	HPLC on LD- 600, LD-620	Ion- exchange HPLC	Feb '20	20190820	20190626, 20190626	5.6%, 9.2%	-	ReCCS ASRL#1

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
Ark Diagnostics Bangalore Pvt. Ltd.	HPLC on CKKA1c	Ion- exchange HPLC	Feb '20	190902-01, 190902-02, 190902-03, 190902-04	19090116, 19090126	5.40%, 11.40%	COL190901	Zhongshan Hospital ASRL#2
Shenzhen Lifotronic Technology Co., Ltd.	Ion-exchange HPLC on H8 Hemoglobin Analyzer; also sold by ASSEL srl as AS8	Ion- exchange HPLC	Jan '20	H8SE19027	H8SE19027	5.50%, 10.00%	I02DSE1970 0001	ReCCS ASRL#1
	Ion-exchange HPLC on H9 Hemoglobin Analyzer; also sold by ASSEL srl as AS9	Ion- exchange HPLC	Jan '20	H8SE19027	H8SE19027	5.50%, 10.00%	I02DSE1970 0002	ReCCS ASRL#1
	Lateral Flow Immunoassay on FA-160	Immuno- assay	Jan '20	8519017	-	-	-	ReCCS ASRL#1
	Ion-exchange HPLC on GH900 and GH900Plus Hemoglobin Analyzer	Ion- exchange HPLC	Jan '20	821943	G9N19081	5.50%, 10.40%	GH19040275	ReCCS ASRL#1
Nihon Kohden Corporation	@Celltac Chemi HbA1c N on MEK-1303	Immuno- assay	Jan '20	89004	CEN008	0.0%, 4.4%, 6.7%, 9.6%, 12.9%	-	ReCCS ASRL#1
Nihon Kohden Corporation	@Celltac Chemi HbA1c on CHM-4100	Immuno- assay	Jan '20	89051	CEN008	0.0%, 4.3%, 6.8%, 9.6%, 12.9%	-	ReCCS ASRL#1
Biosurfit	Spinit HbA1c test	Boronate Affinity	Jan '20	427_01	-	-	-	European Reference Lab ESRL#11
i-SENS	Enzymatic on A1Care	Enzymatic	Jan '20	DFBZAC	-	-	-	ReCCS ASRL#1
Boditech Med Inc.	Immuno-assay on ichroma II	Immuno- assay	Jan '20	AAPXE22	906004	5.5%, 7.5%, 10.5%, 13.8%	-	ReCCS ASRL#1
TaiDoc Technology Corp.	[†] Immunoassay on TD-4611	Immuno- assay	Jan '20	19I223	704101-122	5.5%, 7.9%, 10.7%, 15.5%	-	European Reference Lab ESRL#13
Bio-Rad Laboratories	[†] VARIANT II Dual (A1c)	Ion- exchange HPLC	Jan '20	64297955, 64297956, 6492761	64287653, 64287656	5.3%, 10.4%	VA60425 Dual (A1c)	Univ. of Minn SRL #10
	[†] VARIANT II Dual (A2/F/A1c)	Ion- exchange HPLC	Jan '20	64297955, 64297956, 64292761	64287663, 64287664	5.1%, 10.4%	VA60425 Dual (A2/F/A1c)	Univ. of Minn SRL #10
	D-10 HbA1c (12000949)	Ion- exchange HPLC	Jan '20	AA90299, AA90300, AA90220	AA90242, AA90243	5.4%, 10.2%	R70468R	Univ. of Minn SRL #10
	D-10 HbA1c	Ion- exchange HPLC	Jan '20	AA90258, AA90259, AA90004	AA90271, AA90272	5.3%, 10.1%	A70468AK	Univ. of Minn SRL #10
	D-100 HbA1c	Ion- exchange HPLC	Jan '20	64298608, 64301694, 64303938	64293212, 64293212	5.92%, 9.61%	90095AB	Univ. of Minn SRL #10
	Variant II HbA1c NU	Ion- exchange HPLC	Jan '20	64284285, 64284286, 64234894	64232925, 64232927	5.6%, 10.1%	NU70415J	Univ. of Minn SRL #10

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	VARIANT II TURBO HbA1c Kit – 2.0 (12000447)	Ion- exchange HPLC	Jan '20	64296652, 64296654, 64297942	64287389, 64287390	5.2%, 10.2%	70234AJ	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0	Ion- exchange HPLC	Jan '20	64296652, 64296654, 64297942	64287389, 64287390	5.2%, 10.2%	70234AJ	Univ. of Minn SRL #10
Trinity Biotech	Tri-stat 1 HbA1c Assay	Boronate Affinity	Jan '20	9329 (2I), 10069(2y)	-	-	-	Univ. of Missouri. SRL #11
	Tri-stat 2 HbA1c Assay	Boronate Affinity	Jan '20	10308 (2A)	-	-	-	Univ. of Missouri. SRL #11
Skyla Corporation Hsinchu Science Park Branch	Immunoassay on Skyla Hi Analyzer	Immuno- assay	Jan '20	A1ZH19103	-	-	-	ReCCS ASRL#1
Maccura Biotechnology Co., Ltd	Ion-exchange HPLC on maccura G 01	Ion- exchange HPLC	Jan '20	0919011	0919011	5.4%, 9.3%	BZ168	Zhongshan Hospital ASRL#2
MedTestDx	Pointe Scientific on Biolis 24i	Immuno- assay	Jan '20	H7546	906004	5.0%, 7.7%, 11.8%, 15.5%	-	European Reference Lab ESRL#13
	Pointe Scientific on AU400	Immuno- assay	Jan '20	H7546:91280 1/2020-10-31	906004	5.3%, 8.5%, 12.5%, 15.5%	-	European Reference Lab ESRL#13
SD Biosensor, Inc.	Standard A1cCare	Immuno- assay	Jan '20	AC0219013	-	-	-	ReCCS ASRL#1
	Standard F on Standard F-100	Immuno- assay	Jan '20	FHB10191004 2	-	-	-	ReCCS ASRL#1
SD Biosensor, Inc.	Standard F on Standard F-200	Immuno- assay	Jan '20	FHB1019100 42	-	-	-	ReCCS ASRL#1
	Standard F on Standard F-2400	Immuno- assay	Jan '20	FHB10191004 2	-	-	-	ReCCS ASRL#1
ELITech Clinical Systems SAS	HbA1c (immunoturbidi metric assay) on Selectra ProM AA-PRO-ELserie- HBAC-1.pdf	Immuno- assay	Jan '20	R190864, R190865, R190866, A190377	R190296, R190297, R190298, R190299	5.1%, 8.4%, 11.6%, 16.1%	-	European Reference Lab ESRL#13
	HbA1c (immunoturbidi metric assay) on Selectra ProS AA-PRO-ELserie- HBAC-1.pdf	Immuno- assay	Jan '20	R190864, R190865, R190866, A190377	R190296, R190297, R190298, R190299	5.1%, 8.4%, 11.6%, 16.1%	-	European Reference Lab ESRL#13
Archem Diagnostic	HbA1c Immunotrubidi metric on Architect c	Immuno- assay	Jan '20	081	020	5.6%, 8.1%, 11.2%, 15.5%	-	European Reference Lab ESRL#13
DxGen Corp.	Boronate affinity on Epithod 616	Boronate Affinity	Dec '19	C19J1601R1, C19J1601W1, C19J16001C1	-	-	-	Univ. of Missouri. SRL #9
	Boronate affinity on Epithod 414	Boronate Affinity	Dec '19	C19J1601R1, C19J1601W1, C19J16001C1	-	-	-	Univ. of Missouri. SRL #9
Roche Diagnostics International Ltd	Cobas HbA1c Test on cobas b 101	Immuno- assay	Dec '19	928131-01	-	-	-	Univ. of Missouri. SRL #9

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Roche Diagnostics	TQ HbA1c Gen. 3 Whole Blood on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '19	401258, 384400	319736	0.01726, 0.01151, 0.00822, 0.00575, 0.00288, 0.00115 mmol/L HbA1c; 0.07833, 0.05222, 0.03730, 0.02611, 0.01306, 0.00522 mmol/L Hb	-	European Reference Lab ESRL#13
	TQ HbA1c Gen. 3 Whole Blood on cobas c311 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '19	401258, 407157	319736	0.130, 0.334, 0.661, 0.922, 1.259, 1.799 mmol/L HbA1c; 1.452, 7.833 mmol/L Hb	-	European Reference Lab ESRL#13
	TQ HbA1c Gen. 3 Whole Blood on Cobas c111 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '19	420814, 392151	319736	0.0162, 0.0108, 0.00771, 0.0054, 0.0027, 0.00108 mmol/L HbA1c; 0.07833, 0.05222, 0.0373, 0.02611, 0.01306, 0.00522 mmol/L Hb	-	European Reference Lab ESRL#13
	TQ HbA1c Gen. 3 Hemolysate on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '19	401258, 384400, 416817	319736	1.744, 1.163, 0.830, 0.581, 0.291, 0.116 mmol/L HbA1c; 7.833, 5.222, 3.730, 2.611, 1.306, 0.522 mmol/L Hb	-	European Reference Lab ESRL#13
Siemens Healthineers	Dimension Vista A1C on Vista 1500	Immuno- assay	Dec '19	19112BA	9DD078	0.13, 0.49, 0.92, 1.59, 2.38 g/dL HbA1c; 11.91, 11.77 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Vista A1C on Vista 500	Immuno- assay	Dec '19	19112BA	9DD078	0.13, 0.49, 0.92, 1.59, 2.38 g/dL HbA1c; 11.91, 11.77 g/dL Hb	-	Univ. of Missouri. SRL #9
Bioanalytic (Diaclinica Diagnostik Kimya)	Immunoassay on AU 680	Immuno- assay	Dec '19	938729N, 938729N, 936903N	828300N	5.8%, 8.8%, 11.6%, 15.4%	-	European Reference Lab ESRL#13
Siemens Healthcare	Dimension Hemoglobin A1c (A1C) on Dimension EXL	Immuno- assay	Nov '19	GA9319	GA9319	0.10, 0.57, 1.06, 1.75, 2.54 g/dL HbA1c; 12.29, 11.77 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Hemoglobin A1c (A1C) on Dimension RxL	Immuno- assay	Nov '19	GA9319	GA9319	0.10, 0.57, 1.06, 1.75, 2.54 g/dL HbA1c; 12.29, 11.77 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Hemoglobin A1c (A1C) on Dimension Xpand	Immuno- assay	Nov '19	GA9319	GA9319	0.10, 0.57, 1.06, 1.75, 2.54 g/dL HbA1c; 12.29, 11.77 g/dL Hb	-	Univ. of Missouri. SRL #9

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Siemens Healthcare Diagnostics, Inc.	Dimension Vista Flex HbA1c	Immuno- assay	Nov '19	19196BA	9GD084	0.09, 0.56, 1.03, 1.76, 2.44 g/dL HbA1c; 13.93, 13.73 g/dL Hb	-	Univ. of Missouri. SRL #9
OSANG Healthcare Co., Ltd.	Frontier and HemoCue HbA1c 501	Boronate Affinity	Nov '19	F19H28I05EL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '19	A19I04I16EL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c Plus	Boronate Affinity	Nov '19	B19G26H16EL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '19	C19A23B19DL	-	-	-	Univ. of Missouri. SRL #9

* Method certification has been delayed due to coronavirus and/or other shipping issues.

@ Method is not currently available