

List of NGSP Certified Methods
(updated 2/20, 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
Green Cross Medis Corp.	Boronate Affinity on Cera-Stat 4000 (Merilyzer Merichcek 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.	Borate affinity on LD-500, LD- 510, LD-520	Boronate Affinity	Feb '20	20190416	20190626, 20190626	5.6%, 9.2%	-	ReCCS ASRL#1
	Borate affinity on LD-560, LD- 561, LD-562	Boronate Affinity	Feb '20	20190712	20190626, 20190626	5.7%, 9.2%	-	ReCCS ASRL#1
	Borate affinity on LD-600, LD- 620	Boronate Affinity	Feb '20	20190820	20190626, 20190626	5.6%, 9.2%	-	ReCCS ASRL#1
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	Ion- exchange HPLC	Jan '20	H8SE19027	H8SE19027	5.50%, 10.00%	I02DSE1970 0001	ReCCS ASRL#1
	Ion-exchange HPLC on H9 Hemoglobin Analyzer	Ion- exchange HPLC	Jan '20	H8SE19027	H8SE19027	5.50%, 10.00%	I02DSE1970 0002	ReCCS ASRL#1

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Shenzhen Lifotronic Technology Co., Ltd.	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
	@Celltac Chemi HbA1c N 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 AICare	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
Bio-Rad Laboratories	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
	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

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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
	Standard F on Standard F-200	Immuno- assay	Jan '20	FHB10191004 2	-	-	-	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
DiaSys Diagnostic Systems GmbH	HbA1c net FS, on respons910 HbA1c/Hb*91.5 +2.15	Enzymatic	Dec '19	26535, 26536	27376, 27376	0.418, 1.09 g/dL HbA1c; 7.50, 14.8 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, on JCA- BM6010/C HbA1c/Hb*91.5 +2.15	Enzymatic	Dec '19	26535, 26536	27376, 27376	0.418, 1.09 g/dL HbA1c; 7.50, 14.8 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, on Hitachi 917 HbA1c/Hb*91.5 +2.15	Enzymatic	Dec '19	26535, 26536	27376, 27376	0.425, 1.21 g/dL HbA1c; 4.69, 15.0 g/dL Hb	-	European Reference Lab ESRL#10
	oneHbA1c IS, InnovaStar HbA1c/Hb*91.5 +2.15	Enzymatic	Dec '19	113, 25676	26858, 26859, 26860, 26861	34.3, 66.5, 112, 166 mmol/mol	-	European Reference Lab ESRL#10
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

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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
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
ACON Laboratories, Inc. and Acon Biotech (Hangzhou) Co., Ltd.	On Call A1c	Boronate affinity	Oct '19	201907233	-	-	-	Zhongshan Hospital ASRL#2
Sekisui Diagnostics	HbA1c (Whole Blood) on SK500	Immuno- assay	Oct '19	53376, 53376, 53376	53569	4.62%, 12.01%	-	Univ. of Missouri. SRL #9
Boditech Med Inc.	Immuno-assay on AFIAS-6	Immuno- assay	Oct '19	AAPFA88F	704101	4.9%, 7.3%, 9.5%, 12.0%	-	ReCCS ASRL#1
	Immuno-assay on AFIAS-1	Immuno- assay	Oct '19	AAPFA88F	704101	4.9%, 7.3%, 9.5%, 12.0%	-	ReCCS ASRL#1
Beckman- Coulter Inc.	UniCel DxC Synchron Systems HbA1c- on DxC 800	Immuno- assay	Oct '19	M908026	M901001	0.183, 0.485, 0.864, 1.632, 2.454 g/dL HbA1c; 18.28 g/dL Hb	-	Univ. of Missouri. SRL #9
	UniCel DxC Synchron Systems HbA1c3 on DxC 800	Immuno- assay	Oct '19	M811015	M907003	0.152, 0.475, 0.885, 1.675, 2.314 g/dL HbA1c; 18.40 g/dL Hb	-	Univ. of Missouri. SRL #9
HORIBA, Ltd.	Spotchem Banalyst HbA1c on SI-3620	Immuno- assay	Oct '19	1932HE498O	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 '19	1931HE001C	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1

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HORIBA, Ltd.	B-analyst HbA1c on B- analyst S1	Immuno- assay	Oct '19	1932HE098O	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 '19	1932HE498O	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1
	Banalyst HbA1c on Yumizen	Immuno- assay	Oct '19	1932HEH98A	WC0050	0.0, 25.6, 51.6, 83.3, 124.4 mmol/mol	-	ReCCS ASRL#1
Caretium Medical Instruments Co., Limited	Cation-exchange chromatography on HbA1c analyzer KH- 101	Ion- exchange HPLC	Oct '19	20190611	20190611	5.10%, 10.40%	20190507	ReCCS ASRL#1
Shenzhen Mindray Bio- Medical Electronics Co., Ltd	Enzymatic on BS-200E	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-240	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-240Pro	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-360E	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-380	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-400	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-460	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-480	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-800 & BS- 800M	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1

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Shenzhen Mindray Bio-Medical Electronics Co., Ltd	Enzymatic on BS-830	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-2000 & BS-2000M	Enzymatic	Oct '19	045618002	155118003	3.10, 16.9µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Ion-exchange HPLC on H50/H50P	Ion-exchange HPLC	Oct '19	2018072601, 2018091501, 2018112201	812RBQ N, 812RBQ H	5.33%, 11.56%	7I021M	ReCCS ASRL#1
Hitachi Chemical Diagnostics Systems Co., Ltd.	MetaboLead HbA1c on JCA-BM9130	Enzymatic	Oct '19	401AIE, 401AIE	155AIA	2.46, 9.59 µmol/L HbA1c; 81.8, 118.0 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on DM-JACK	Enzymatic	Oct '19	401AIE, 401AIE	155AIA	2.46, 9.59 µmol/L HbA1c; 81.8, 118.0 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on Hitachi 7180	Enzymatic	Oct '19	401AIE, 401AIE	155AIA	2.46, 9.59 µmol/L HbA1c; 81.8, 118.0 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on LABOSPECT 006	Enzymatic	Oct '19	401AIE, 401AIE	155AIA	2.46, 9.59 µmol/L HbA1c; 81.8, 118.0 µmol/L Hb	-	ReCCS ASRL#1
	MetaboLead HbA1c on TBA-120FR	Enzymatic	Oct '19	401AIE, 401AIE	155AIA	2.46, 9.59 µmol/L HbA1c; 81.8, 118.0 µmol/L Hb	-	ReCCS ASRL#1
Beckman-Coulter Inc.	UniCel DxS Synchron Systems HbA1c3 on UniCel DxS 600	Immuno-assay	Sept '19	M901002	M901002	0.183, 0.485, 0.864, 1.632, 2.454 g/dL HbA1c; 18.28 g/dL Hb	-	Univ. of Missouri. SRL #9
Jana Care, Inc.	Aina HbA1c Monitoring System 2	Boronate affinity	Sept '19	551	-	-	-	Univ. of Missouri. SRL #9
Hipro Biotechnology Co., Ltd.	Nephelometry on HP-AFS	Immuno-assay	Sept '19	FA190509	S3519-3	0.00%, 5.00%, 7.40%, 11.20%	-	Zhongshan Hospital ASRL#2
Horiba Medical	HbA1c WB Hemolysate – ABX Pentra C200 (Y=(0.328*X)+2.216)	Immuno-assay	Sept '19	1901901	1900401	0.00, 1.80, 3.51, 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=(0.369*X)+2.408)	Immuno-assay	Sept '19	1901901	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

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Horiba Medical	HbA1c WB Hemolysate – ABX Pentra 400 ($Y=(0.419*X)+1.61$)	Immuno- assay	Sept '19	1901901	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 '19	1901901	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 ($Y=(0.352*X)+2.644$)	Immuno- assay	Sept '19	1901901	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
EKF Diagnostics GmbH	^t Boronate- Affinity Quo- Test HbA1c	Boronate affinity	Sept '19	020531	-	-	-	European Reference Lab ESRL #11
	^t Boronate- Affinity Quo- Lab HbA1c	Boronate affinity	Sept '19	025624	-	-	-	European Reference Lab ESRL #11
Human Gesellschaft fuer Biochemica und Diagnostica mbH	^t Boronate- Affinity HumaMeter HbA1c	Boronate affinity	Sept '19	025623	-	-	-	European Reference Lab ESRL #11
Beckman Coulter Ireland Inc.	HbA1c B00389 Manual Application AU5800	Immuno- assay	Sept '19	1045, M811080	1045	0.069, 0.275, 0.513, 0.943, 1.431 mmol/L HbA1c; 7.87 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU2700	Immuno- assay	Sept '19	1045, M811080	1045	0.069, 0.275, 0.513, 0.943, 1.431 mmol/L HbA1c; 7.87 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU680	Immuno- assay	Sept '19	1045, M811080	1045	0.069, 0.275, 0.513, 0.943, 1.431 mmol/L HbA1c; 7.87 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU480	Immuno- assay	Sept '19	1045, M811080	1045	0.069, 0.275, 0.513, 0.943, 1.431 mmol/L HbA1c; 7.87 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application DxC 700 AU	Immuno- assay	Sept '19	1045, M811080	1045	0.069, 0.275, 0.513, 0.943, 1.431 mmol/L HbA1c; 7.87 mmol/L Hb	-	European Reference Lab ESRL #13
JEOL Ltd.	^t BM Test HbA1c on JCA- BM 6010/C	Enzymatic	Sept '19	842RBQ, 843RBQ, 843RFQ	920RIP, 920RIP	3.32, 15.57 µmol/L HbA1c; 102.30, 153.20 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
Agappe Diagnostics Ltd.	¹ AgA1C (Immunoturbidi metric method) on TBA 25 FR	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on TBA 120 FR	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ HbA1c (Immunoturbidi metric method) on Turbiquick	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	6.3%, 10.6%, 14.0%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Nano	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	6.3%, 10.6%, 14.0%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Nano Plus	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Clinia	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Clinia Plus	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Ace	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	6.3%, 10.6%, 14.0%, 16.8%	-	European Reference Lab ESRL#10
	¹ Nephelometry on Specific Protein Analyzer Mispa i2	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ Nephelometry on cartridge based Specific Protein Analyzer Mispa i3	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on TMS 30i	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa VIVA	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa CCXL	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	6.3%, 10.6%, 14.0%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa CX4	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	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
Agappe Diagnostics Ltd.	¹ AgA1c (Immunoturbidi metric method) on Mispa CXL Pro	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
	¹ AgA1c (Immunoturbidi metric method) on BS 390	Immuno- assay	Sept '19	19040026, 19040027, 18030046	29030137, 29030139, 29030140, 29030142	5.8%, 9.8%, 13.3%, 16.8%	-	European Reference Lab ESRL#10
Apex Biotechnology Corp.	Immunoaggluti nation on Eclipse A1c	Immuno- assay	Sept '19	S81103	-	-	-	ReCCS ASRL#1
Medisensor. INC.	Boronate Affinity on careSURE Analyzer 100, CareU analyzer 100	Boronate Affinity	Sept '19	BHC0001, BHC0002	BHB19F101	5.00%, 9.00%	-	ReCCS ASRL#1
Erba Lachema s.r.o.	Hb-Vario	Ion- exchange HPLC	Aug '19	1904054, 1904054, 1904054	170220A, 170221A	5.99%, 11.84%	1904054	Univ. of Missouri. SRL #9
Guangzhou Wondfo Biotech Co., Ltd.	Fluorescence on Finecare FIA Meter Plus	Immuno- assay	Aug '19	W20713402A	-	-	-	ReCCS ASRL#1
	Fluorescence on Finecare FIA Meter	Immuno- assay	Aug '19	W20713402A	-	-	-	ReCCS ASRL#1
Sugentech	Immunoassay on INCLIX	Immuno- assay	Aug '19	HBAT19001	-	-	-	ReCCS ASRL#1
Sakae Corporation	Medidas HbA1c on A1c iGear Quick	Immuno- assay	Aug '19	451812, 461901, 461903	STS009	0.0%, 4.5%, 6.9%, 10.0%, 13.7%	-	ReCCS ASRL#1
	Medidas HbA1c on A1c iGear	Immuno- assay	Aug '19	451812, 461901, 461903	STS009	0.0%, 4.5%, 6.9%, 10.0%, 13.7%	-	ReCCS ASRL#1
Beckman Coulter Ireland Inc.	HbA1c Advanced B93009 Online Application on DxC 700 AU	Immuno- assay	Aug '19	1045, M811080	1045	0.093, 0.279, 0.522, 0.984, 1.442 mmol/L HbA1c; 7.87 mmol/L Hb	-	European Reference Lab ESRL#13
Siemens Healthcare Diagnostics Inc.	Dimension Flex HB1C on Dimension Xpand	Immuno- assay	July '19	GF0035	GF0035	0.13, 0.58, 1.08, 1.91, 2.39 g/dL HbA1c; 11.12, 11.16 g/dL Hb	-	Univ. of Missouri. SRL #9
MedTestDx	Pointe Scientific, HbA1c Immunotrubidi metric on BA800	Immuno- assay	July '19	834701	906004	0.00%, 5.0%, 7.9%, 11.8%, 15.3%	-	European Reference Lab ESRL#13
	Pointe Scientific, HbA1c Immunotrubidi metric on BS480	Immuno- assay	July '19	834701	906004	0.00%, 4.8%, 7.3%, 11.3%, 15.2%	-	European Reference Lab ESRL#13
Nittobo Medical Co., LTD.	N-Assay LA HbA1c Nittobo on JCA- BM9130	Immuno- assay	July '19	N801S	N801S	0.0%, 5.0%, 8.5%, 12.1%, 15.7%	-	ReCCS ASRL#1

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Nittobo Medical Co., LTD.	N-Assay LA HbA1c Nittobo on H-7180	Immuno-assay	July '19	N801S	N801S	0.0%, 5.0%, 8.5%, 12.1%, 15.7%	-	ReCCS ASRL#1
Diazyme Laboratories, Inc.	Direct HbA1c Assay (Enzymatic, On-Board Lysis) on Modular P	Enzymatic	July '19	HAL02190, HA102190, HA202190	HAS101190, HAS201190	5.7%, 11.4%	-	Univ. of Minn SRL #10
Randox Laboratories Ltd	HbA1c_2 on RX Daytona+	Immuno-assay	July '19	958HARX, 959HARX, 960HARX	1965HA, 1966HA, 1967HA, 1968HA, 1969HA	0.00, 4.55%, 7.87%, 11.51%, 15.35%	-	Univ. of Missouri. SRL #9
	HbA1c_2 on RX Imola	Immuno-assay	July '19	958HARX, 959HARX, 960HARX	1965HA, 1966HA, 1967HA, 1968HA, 1969HA	0.00, 4.55%, 7.87%, 11.51%, 15.35%	-	Univ. of Missouri. SRL #9
	HbA1c_2 on RX Modena	Immuno-assay	July '19	958HARX, 959HARX, 960HARX	1965HA, 1966HA, 1967HA, 1968HA, 1969HA	0.00, 4.55%, 7.87%, 11.51%, 15.35%	-	Univ. of Missouri. SRL #9
Getein Biotech, Inc.	Immunofluorescence Assay on Getein 1100	Immuno-assay	July '19	YBC19054	-	-	-	Zhongshan Hospital ASRL#2
	Immunofluorescence Assay on Getein 1600	Immuno-assay	July '19	P01919830	-	-	-	Zhongshan Hospital ASRL#2
	Colloidal Gold on FIA8600/8000	Immuno-assay	July '19	6BC19035	-	-	-	Zhongshan Hospital ASRL#2
A. Menarini Diagnostics	HPLC Auto A1c on Premier Hb-9210	Boronate affinity	July '19	7986, 8299, 8314, 9144	8701, 8702	5.90%, 10.20%	0858-8144	European Reference Lab ESRL#11
Sekisui Diagnostics	HbA1c (Hemolysate) on SK500	Immuno-assay	June '19	53033, 53033, 53033	53568	4.45%, 11.77%	-	Univ. of Missouri. SRL #9
Boditech Med Inc.	Immuno-assay on ichroma Reader	Immuno-assay	June '19	AAPCD68, AAPCD68, AAPCD68	704101	5.5%, 8.5%, 11%, 14%	-	ReCCS ASRL#1
Xiamen Biotime Biotechnology Co., Ltd.	Fluorescence Immunoassay on BIOT-YG-I FIA Analyzer	Immuno-assay	June '19	Y1903009	-	-	-	Zhongshan Hospital ASRL#2
Lansion Biotechnology Co., Ltd.	Dry Fluorescence Immunoassay on LS-1100	Immuno-assay	June '19	0011903	190311, 190311	9.8%, 4.9%	-	Zhongshan Hospital ASRL#2
	Dry Fluorescence Immunoassay on LS-2100	Immuno-assay	June '19	0011903	190311, 190311	9.8%, 4.9%	-	Zhongshan Hospital ASRL#2
	Dry Fluorescence Immunoassay on LS-4000	Immuno-assay	June '19	0011903	190311, 190311	9.8%, 4.9%	-	Zhongshan Hospital ASRL#2
Beckman-Coulter Inc.	UniCel DxS Synchron Systems HbA1c3 on UniCel DxS 800	Immuno-assay	June '19	M902004	M901002	0.183, 0.485, 0.864, 1.632, 2.454 g/dL HbA1c; 18.28 g/dL Hb	-	Univ. of Missouri. SRL #9

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Greencross Medical Science	Boronate Affinity on Greencare-A1c / QDx A1c Advance	Boronate affinity	June '19	RT101IMW	-	-	-	Univ. of Missouri. SRL #9
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
Ortho Clinical Diagnostics	%A1c on Vitros 5,1 FS	Immuno- assay	June '19	7304	3119	0.166, 0.887, 1.797, 4.113 g/dL HbA1c; -0.641 3.003, 7.177 15.779 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 4600	Immuno- assay	June '19	7304	3119	0.18, 0.883, 1.81, 4.128 g/dL HbA1c; -0.641 3.003, 7.177 15.779 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 5600	Immuno- assay	June '19	7304	3119	0.18, 0.883, 1.81, 4.128 g/dL HbA1c; -0.641 3.003, 7.177 15.779 g/dL Hb	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics	DCA Vantage	Immuno- assay	June '19	0997039, 0506049	-	-	-	Univ. of Missouri. SRL #9
Wuxi Biohermes Bio & Medical Technology Co., Ltd.	Boronate Affinity on A1cChek Express Glycohemoglobin Analysis System	Boronate affinity	June '19	EAP19042505	-	-	-	Zhongshan Hospital ASRL#2

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Wuxi Biohermes Bio & Medical Technology Co., Ltd.	Boronate Affinity on A1c EZ 2.0 Glycohemoglobin Analysis System	Boronate affinity	June '19	EAP19042505	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on A1cChek Pro Glycohemoglobin Analysis System	Boronate affinity	June '19	EAV19040804	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on GluCoA1c Blood Glucose and Glycohemoglobin Analysis System	Boronate affinity	June '19	EAG19041806	-	-	-	Zhongshan Hospital ASRL#2
Roche Diagnostics GmbH	TQ HbA1c Gen. 3 whole blood on cobas c501 (HbA1c/Hb*91.5+2.15)	Immuno-assay	June '19	389559, 377612	257104	0.129, 0.332, 0.657, 0.916, 1.252, 1.789 mmol/L HbA1c; 1.412, 7.617 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Hemolysate on cobas c503 (HbA1c/Hb*91.5+2.15)	Immuno-assay	June '19	378530, 376617, 351974	257104	0.148, 0.345, 0.657, 0.901, 1.238, 1.751 mmol/L HbA1c; 1.49, 8.04 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 whole blood on cobas c503 (HbA1c/Hb*91.5+2.15)	Immuno-assay	June '19	378530, 376617	257104	0.147, 0.344, 0.659, 0.903, 1.242, 1.757mmol/L HbA1c; 1.49, 8.04 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 hemolysate on cobas c513 (HbA1c/Hb*91.5+2.15)	Immuno-assay	June '19	347191, 351974, 327120	257104	0.148, 0.345, 0.657, 0.901, 1.238, 1.751 mmol/L HbA1c; 1.49, 8.04 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 whole blood on cobas c513 (HbA1c/Hb*91.5+2.15)	Immuno-assay	June '19	347191, 327120	257104	0.147, 0.344, 0.659, 0.903, 1.242, 1.757mmol/L HbA1c; 1.49, 8.04 mmol/L Hb	-	Univ. of Missouri. SRL #9
Tosoh Corporation	¹ G7 HbA1c Standard Analysis Mode (1.2 min) HLC-723G7	Ion-exchange HPLC	June '19	K7-102E, K7-201E, 7-303D, HW-01E	ZS8001	5.85%, 10.67%	K	Univ. of Missouri. SRL #9
	¹ G8 HbA1c Standard Analysis Mode (1.0 min) HLC-723G8	Ion-exchange HPLC	June '19	K8-102E, K8-207D, 8-303D, HW-01E	ZS8001	5.85%, 10.67%	K	Univ. of Missouri. SRL #9

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Tosoh Corporation	¹ G9 HbA1c, HLC-723G9	Ion-exchange HPLC	June '19	D9-101D, D9-202D, 9-302D, HW-01E	JS8001	5.73%, 11.07%	D	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode Ver. 5.24 (1.6 min), HLC-723G8	Ion-exchange HPLC	June '19	N8-103E, N8-202E, N8-302E, HW-01E	ZS8001	5.85%, 10.67%	N	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode (1.6 min), HLC-723G8	Ion-exchange HPLC	June '19	N8-103E, N8-202E, N8-302E, HW-01E	ZS8001	5.85%, 10.67%	N	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode Ver.5.23 (1.6 min), HLC-723G8	Ion-exchange HPLC	June '19	N8-103E, N8-202E, N8-302E, HW-01E	ZS8001	5.85%, 10.67%	N	Univ. of Missouri. SRL #9
	G7 HbA1c Variant Analysis Mode (2.2 min), HLC-723G7	Ion-exchange HPLC	June '19	M7-105D, M7-203C, M7-305C, HW-01E	ZS8001	5.85%, 10.67%	M	Univ. of Missouri. SRL #9
	¹ GX HLC-723GX	Ion-exchange HPLC	June '19	AX-110D, AX-210D, AX-310D, HW-01E	ZS8001	5.85%, 10.67%	A	Univ. of Missouri. SRL #9
	¹ G11, Standard Analysis Mode (0.5 min), HLC-723G11	Ion-exchange HPLC	June '19	E1-102E, E1-204D, 1-301E, HW-01E	ZS8001	5.85%, 10.67%	E	Univ. of Missouri. SRL #9
	¹ G11, Variant Analysis Mode (1.0 min), HLC-723G11	Ion-exchange HPLC	June '19	B1-101E, B1-201D, B1-301D, HW-01E	ZS8001	5.85%, 10.67%	B	Univ. of Missouri. SRL #9
ACON Laboratories, Inc. and Acon Biotech (Hangzhou) Co., Ltd	On Call MultiPro Analyzer	Immuno-assay	May '19	HbA1c8070001	-	-	-	Zhongshan Hospital ASRL#2
Shenzhen Labnovation Technologies, Inc.	Boronate Affinity Chromatography on LD-100, LD-120, LD-160	Boronate Affinity	May '19	20191010	20181221, 20181221	5.20%, 11.40%	20191010	ReCCS ASRL#1
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 '19	M808161, 1044C	1044C	0.171, 0.439, 0.789, 1.469, 2.22 g/dL HbA1c; 13.58 g/dL Hb	-	Univ. of Missouri. SRL #9
Genrui Biotech Inc	Nephelometry on Specific Protein Analyzer PA50/PA54	Immuno-assay	May '19	20190201	-	-	-	ReCCS ASRL#1

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Genrui Biotech Inc	Nephelometry on Fully-auto Specific Protein Analyzer PA120	Immuno- assay	May '19	20190201	-	-	-	ReCCS ASRL#1
Abbott Diagnostics	HbA1c (Hemolysate) on Architect c8000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '19	53747UQ09, 53747UQ09, 53747UQ	53038UQ05, 53038UQ05	5.4%, 11.2%	-	Univ. of Missouri. SRL #9
	HbA1c (Hemolysate) on Architect c4000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '19	53747UQ09, 53747UQ09, 53747UQ	53038UQ05, 53038UQ05	5.4%, 11.2%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Architect c4000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '19	53747UQ09, 53747UQ09, 53747UQ	53038UQ05, 53038UQ05	5.4%, 11.2%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Architect c8000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '19	53747UQ09, 53747UQ09, 53747UQ	53038UQ05, 53038UQ05	5.4%, 11.2%	-	Univ. of Missouri. SRL #9
	HbA1c (Hemolysate) on Alinity c %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '19	53747UQ09, 53747UQ09, 53747UQ	53038UQ05, 53038UQ05	5.4%, 11.2%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Alinity c analyzer %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '19	53747UQ09, 53747UQ09, 53747UQ	53038UQ05, 53038UQ05	5.4%, 11.2%	-	Univ. of Missouri. SRL #9
Tascom Co., Ltd.	Enzyme method on SimplexTAS 101 Analyzer	Enzymatic	Apr '19	00102	-	-	-	European Reference Lab ESRL#14
Jiangsu Audicom Medical Technology Co., Ltd.	Ion-exchange chromatography on AC6601 HbA1c Analyzer	Ion- exchange HPLC	Apr '19	190101-20, 181201-21, 190101-22, 190101-23, 190101-24,	181201-26, 181201-27	5.80%, 11.90%	190105-48	Univ. of Missouri. SRL #9
Furuno Electric Co. Ltd.	Centronic HbA1c turbidimetric immunoassay on CA-800	Immuno- assay	Apr '19	HF04181K- 811, HF04181K- 811, HF04181K- 811	704101	0, 5.6%, 8.3%, 11.3%, 15.9%	-	ReCCS ASRL#1

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Siemens Healthcare Diagnostics Inc	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Atellica CH	Enzymatic	Apr '19	190053	9BS001	3.35, 14.75 µmol/L A1c; 98.9, 151.1 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia XPT	Enzymatic	Apr '19	100	8LS004	3.29, 14.12 µmol/L A1c; 100.9, 149.5 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 2400	Enzymatic	Apr '19	100	8LS004	3.29, 14.12 µmol/L A1c; 100.9, 149.5 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 1800	Enzymatic	Apr '19	100	8LS004	3.29, 14.12 µmol/L A1c; 100.9, 149.5 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Hemoglobin A1c 3 (A1c_3)- Automated Pretreatment on Advia 1800	Immuno- assay	Apr '19	370	7JD011	2.67, 3.84, 5.04, 6.71, 10.83 µmol/L A1c; 12.15 g/dL tHb	-	Univ. of Missouri. SRL #9
	Hemoglobin A1c 3 (A1c_3)- Automated Pretreatment on Atellica CH	Immuno- assay	Apr '19	180153	8ED053	2.74, 3.94, 5.46, 6.79, 10.87 µmol/L A1c; 12.76 g/dL tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia XPT	Enzymatic	Apr '19	100	8LS004	3.29, 14.12 µmol/L A1c; 100.9, 149.5 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 2400	Enzymatic	Apr '19	100	8LS004	3.29, 14.12 µmol/L A1c; 100.9, 149.5 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 1800	Enzymatic	Apr '19	100	8LS004	3.29, 14.12 µmol/L A1c; 100.9, 149.5 µmol/L tHb	-	Univ. of Missouri. SRL #9
Nova Biomedical	Allegro, Immunoassay	Immuno- assay	Apr '19	18241016	-	-	-	Univ. of Missouri. SRL #9
SD Biosensor, Inc.	MultiCare Analyzer	Immuno- assay	Apr '19	MS1018038	-	-	-	ReCCS ASRL#1

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Sebia	Capillarys HbA1c on Capillarys 2 Flex Piercing %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '19	11098/80, 22086/01, 01038/01	22087/01, 23087/01	37.2, 86.2 mmol/mol	-	European Reference Lab ESRL#10
	Minicap HbA1c %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '19	05126/01, 30107/01, 26067/01	05047/01, 06047/01	36.8, 88.3 mmol/mol	-	European Reference Lab ESRL#10
	CAP1 3 HbA1c on Capillarys 3 %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '19	05126/01, 30107/01, 04127/01	05047/01, 06047/01	36.8, 88.3 mmol/mol	-	European Reference Lab ESRL#10
Wiener Laboratorios S.A.I.C.	¹ HbA1c v.2 Turbitest AA on CB 350i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '19	284440, 284460, 284470, 273770	286670	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 '19	284440, 284460, 284470, 273770	286670	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	¹ HbA1c v2 Turbitest AA on CM 250 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '19	284440, 284460, 284470, 273770	286670	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	¹ HbA1c v2 Turbitest AA on CMD 600 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '19	284440, 284460, 284470, 273770	286670	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
	¹ HbA1c v2 Turbitest AA on CMD 800i X1 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '19	284440, 284460, 284470, 273770	286670	2.708 g/dL HbA1c; 13.35 g/dL Hb	-	Univ. of Missouri. SRL #9
Fujirebio Inc.	¹ Rapidia Auto HbA1c-L on BiOLis24i Premium	Immuno- assay	Apr '19	QF80904, RF80904, SF80902	VF80804	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1
	¹ Rapidia Auto HbA1c-L on JCA-BM9130	Immuno- assay	Apr '19	QF80904, RF80904, SF80902	VF80804	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1
	¹ AU-Synchron Reagent HbA1c on AU680	Immuno- assay	Apr '19	F9A018, F9A018, H2A013	H1A019	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1
	¹ Rapidia Auto HbA1c-L on AU680	Immuno- assay	Apr '19	QF80904, RF80904, SF80902	VF80804	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1
	¹ Rapidia Auto HbA1c-L on Hitachi 7180	Immuno- assay	Apr '19	QF80904, RF80904, SF80902	VF80804	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1

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Fujirebio Inc.	† Rapidia Auto HbA1c-L on TBA-120FR	Immuno- assay	Apr '19	QF80904, RF80904, SF80902	VF80804	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1
Abbott Diagnostics Technologies AS	Afinion HbA1c / Afinion AS100 Analyzer	Boronate affinity	Apr '19	10194358	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c Dx / Afinion AS100 Analyzer	Boronate affinity	Apr '19	10194358	-	-	-	European Reference Lab ESRL #11
	NycoCard HbA1c on NycoCard Reader II	Boronate affinity	Apr '19	10199992, 10200151, 10200183	-	-	-	European Reference Lab ESRL #11
	@Afinion HbA1c Dx / Afinion 2 Analyzer	Boronate affinity	Apr '19	10194358	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c / Afinion 2 Analyzer	Boronate affinity	Apr '19	10194358	-	-	-	European Reference Lab ESRL #11
Arkray, Inc.	† ADAMS A1c HA-8160 VP mode	Ion- exchange HPLC	Apr '19	18041331, 18030212, 18041333, 18070614	S7001, S8003	5.2%, 10.9%; 5.3%, 10.7%	8H001Y	ReCCS ASRL#1
	† ADAMS A1c HA-8160 TP mode	Ion- exchange HPLC	Apr '19	18041331, 18030212, 18072634, 18102535, 18070614	S7001, S8003	5.2%, 10.9%; 5.3%, 10.7%	8H001W	ReCCS ASRL#1
	† ADAMS A1c HA-8160 (Ver.1)	Ion- exchange HPLC	Apr '19	18112111, 18030212, 18041333, 18070614	S7001, S8003	5.2%, 10.9%; 5.3%, 10.7%	8H001X	ReCCS ASRL#1
	† ADAMS A1c HA-8160 (Ver.4)	Ion- exchange HPLC	Apr '19	18042057, 18062958, 18100559, 18042755	S7001, S8003	5.2%, 10.9%; 5.2%, 10.7%	8H001F	ReCCS ASRL#1
	† ADAMS A1c HA-8170	Ion- exchange HPLC	Apr '19	18042057, 18062958, 18100559, 18042755	S7001, S8003	5.2%, 10.9%; 5.2%, 10.7%	8H051G	ReCCS ASRL#1
	† ADAMS A1c HA-8180	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8F1052	S7001, S8003	5.3%, 10.8%; 5.3%, 10.7%	8H251N	ReCCS ASRL#1
	ADAMS A1c HA-8180V Variant mode	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8H1401, 8F1052	S7001, S8003	5.3%, 10.8%; 5.3%, 10.7%	9B143U	ReCCS ASRL#1
	† ADAMS A1c HA-8180V Fast mode	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8H1401, 8F1052	S7001, S8003	5.3%, 10.8%; 5.3%, 10.7%	9B143U	ReCCS ASRL#1
	† ADAMS A1c HA-8180T	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8J10601, 8F1052	S7001, S8003	5.3%, 10.8%; 5.3%, 10.7%	8H021L	ReCCS ASRL#1
	† ADAMS HYBRID AH- 8290	Ion- exchange HPLC	Apr '19	88H1013, 8H1023, 8F1052	S8002, S8003	5.3%, 10.8%; 5.3%, 10.7%	9B078N	ReCCS ASRL#1

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Arkray, Inc.	[†] ADAMS A1c HA-8181	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8F1052	S7001, S8003	5.3%, 10.8%; 5.3%, 10.7%	8H251N	ReCCS ASRL#1
	[†] ADAMS HYBRID AH- 8280	Ion- exchange HPLC	Apr '19	8K1003, 8J1022, 8K1042	S8002, S8003	5.3%, 11.1%; 5.3%, 10.7%	8L507N	ReCCS ASRL#1
	[†] ADAMS A1c HA-8190V Fast mode	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8H1402, 8F1052	S7001, S8003	5.3%, 10.7%; 5.2%, 10.9%	8H051V	ReCCS ASRL#1
	[†] ADAMS A1c HA-8190V Variant mode	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8H1402, 8F1052	S7001, S8003	5.3%, 10.7%; 5.2%, 10.9%	8H051V	ReCCS ASRL#1
	[†] CinQ HbA1c on JCA- BM6010 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '19	MFA12, MFE12	CAC8D21	2.46, 7.40 µmol/L HbA1c; 96.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] CinQ HbA1c on TBA-120FR HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '19	MFA12, MFE12	CAC8D21	2.46, 7.40 µmol/L HbA1c; 96.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] CinQ HbA1c on JCA- BM9130 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '19	MFA12, MFE12	CAC8D21	2.46, 7.40 µmol/L HbA1c; 96.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] CinQ HbA1c on JCA-ZS050 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '19	MFA12, MFE12	CAC8D21	2.46, 7.40 µmol/L HbA1c; 96.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] CinQ HbA1c on Hitachi LABOSPECT 006 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '19	MFA12, MFE12	CAC8D21	2.46, 7.40 µmol/L HbA1c; 96.3 µmol/L Hb	-	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8F1052	S7001, S8003	5.3%, 10.7%; 5.2%, 10.9%	9B078N	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380V Fast mode	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8H1401, 8F1052	S7001, S8003	5.3%, 10.7%; 5.2%, 10.9%	8H151U	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380V Variant mode	Ion- exchange HPLC	Apr '19	8H1013, 8H1023, 8H1401, 8F1052	S7001, S8003	5.3%, 10.7%; 5.2%, 10.9%	8H151U	ReCCS ASRL#1
	[†] ADAMS A1c HA-8182	Ion- exchange HPLC	Apr '19	9A1001, 8J1022, 9A1042	S8002, S8003	5.3%, 11.1%; 5.3%, 10.7%	8L177N	ReCCS ASRL#1

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Arkray, Inc.	@ The Lab 001	Capillary Electrophoresis	Apr '19	CE118J02	-	-	-	ReCCS ASRL#1
Sakae Corporation	⁴ Medidas HbA1c on A1c GEAR	Immuno- assay	Apr '19	451901	STS009	0.0%, 4.5%, 6.9%, 10.0%, 13.7%	-	ReCCS ASRL#1
77 Elektronika Kft.	Colloidal gold on SmartTester	Immuno- assay	Mar '19	6BC18155W	-	-	-	European Reference Lab ESRL #10
PTS Diagnostics	A1Cnow+; A1Cnow SELF-CHECK	Immuno- assay	Mar '19	B8-08-010	-	-	-	Univ. of Missouri. SRL #9
Trinity Biotech	Boronate Affinity HPLC on PDQ	Boronate affinity HPLC	Mar '19	8384, 8977, 9020, 8486	8801, 8802	5.8%, 10.2%	8069	Univ. of Missouri. SRL #11
	Boronate Affinity HPLC on <i>ultra</i> ²	Boronate affinity HPLC	Mar '19	8384, 8977, 9020, 8486	8801, 8802	6.0%, 10.2%	8069	Univ. of Missouri. SRL #11
	Boronate Affinity HPLC on Premier Hb9210	Boronate affinity HPLC	Mar '19	9266, 8576, 9253, 9057	8801, 8802	5.8%, 10.2%	8174	Univ. of Missouri. SRL #11
Sekisui Medical Co., Ltd.	¹ L type Norudia N HbA1c on Hitachi LST008	Enzymatic	Mar '19	110RJP, 110RJP, 110RJP	108RIP	3.47, 15.86 µmol/L HbA1c; 104.8, 147.5 µmol/L Hb	-	ReCCS ASRL#1
	¹ L type Norudia N HbA1c on Hitachi LST006	Enzymatic	Mar '19	110RJP, 110RJP, 110RJP	108RIP	3.47, 15.86 µmol/L HbA1c; 104.8, 147.5 µmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on Hitachi 7170S	Enzymatic	Mar '19	110RHP, 110RHP, 111RJP	112RIP	3.32, 15.57 µmol/L HbA1c; 102.3, 153.2 µmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on EV800	Enzymatic	Mar '19	110RHP, 110RHP, 111RJP	112RIP	3.32, 15.57 µmol/L HbA1c; 102.3, 153.2 µmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on JCA- BM9130	Enzymatic	Mar '19	110RHP, 110RHP, 111RJP	112RIP	3.32, 15.57 µmol/L HbA1c; 102.3, 153.2 µmol/L Hb	-	ReCCS ASRL#1
	¹ Adams A1c mini	Ion- exchange HPLC	Mar '19	1108002818	1210001318	5.24%, 11.17%	1007008117	ReCCS ASRL#1
	¹ RC20	Ion- exchange HPLC	Mar '19	1812110023	1810150017	5.24%, 11.17%	1804090204	ReCCS ASRL#1
	¹ Norudia N HbA1c on TBA- 120FR	Enzymatic	Mar '19	110RHP, 110RHP, 111RJP	112RIP	3.32, 15.57 µmol/L HbA1c; 102.3, 153.2 µmol/L Hb	-	ReCCS ASRL#1

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Sekisui Medical Co., Ltd.	[†] Norudia N HbA1c Auto TBA on TBA-120FR	Enzymatic	Mar '19	110RHP, 110RHP, 111RJP	107RIP	3.32, 15.57 μmol/L HbA1c; 102.3, 153.2 μmol/L Hb	-	ReCCS ASRL#1
Kyowa Medex Co., Ltd.	[†] Determiner L HbA1c on DM-JACK	Immuno-assay	Mar '19	152AHI, 152AHI	322AHJ	0.0%, 4.5%, 6.8%, 9.6%,	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on JCA-BM9130	Immuno-assay	Mar '19	151AHI, 151AHI	322AHJ	0.0%, 4.5%, 6.6%, 9.7%,	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on Hitachi 7180	Immuno-assay	Mar '19	151AHI, 151AHI	321AHJ	0.0%, 4.2%, 6.8%, 9.5%,	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on TBA-120FR	Immuno-assay	Mar '19	151AHI, 151AHI	322AHJ	0.0%, 4.5%, 6.6%, 9.7%,	-	ReCCS ASRL#1
	[†] Determiner HbA1c on FUNOTEC FC300	Immuno-assay	Mar '19	151AHI, 151AHI	322AHJ	0.0%, 4.5%, 6.6%, 9.7%,	-	ReCCS ASRL#1

[†] Method is not available in the US

@ Method is not currently available