

List of NGSP Certified Methods
(updated 7/18, 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
Ortho Clinical Diagnostics	%A1c on Vitros 7600 FS	Immuno- assay	July '18	6438	3168, 3168	0.189, 0.845, 1.632, 3.801 g/dL HbA1c; (-1.176), 2.610, 7.044, 16.111 g/dL Hb	-	Univ. of Missouri. SRL #9
Getein Biotech, Inc.	Immunofluores- cence Assay on Getein 1100	Immuno- assay	July '18	YBC18080	-	-	-	Zhongshan Hospital ASRL#2
Menarini Diagnostics	¹ HPLC Auto A1c HA-8160 ADAMS	Ion- exchange HPLC	July '18	201712, 201703, 201706, 201714	201702	5.7%, 10.7%	7F043Y	European Reference Lab ESRL#10
	¹ HPLC Auto A1c HA-8180V ADAMS	Ion- exchange HPLC	July '18	7G1201, 7G1211, 7K1501, 7K1221	201702	5.70%, 10.70%	6J016Q	European Reference Lab ESRL#10
	¹ HPLC Auto A1c HA-8180T ADAMS	Ion- exchange HPLC	July '18	7G1201, 7G1211, 8B1701, 7K1221	201702	5.70%, 10.70%	5F006P	European Reference Lab ESRL#10
	¹ HPLC Auto A1c on Premier Hb-9210	Boronate affinity	July '18	7758, 7342, 7346, 7806	7201, 7202	5.80%, 10.80%	3870-7471	European Reference Lab ESRL#10
Sekisui Diagnostics PEI	HbA1c (Hemolysate) on SK500	Enzymatic	June '18	51678, 51678, 51678	52624, 52624	1.99, 13.25 µmol/L HbA1c; 94.3, 140.2 µmol/L Hb	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on SK500	Enzymatic	June '18	51678, 51678, 51678	52624, 52624	1.99, 13.25 µmol/L HbA1c; 94.3, 140.2 µmol/L Hb	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics, Inc.	Dimension Flex Hb1c on Xpand	Immuno- assay	June '18	GB8198	GB8198	0.11, 0.53, 1.04, 1.86, 2.30 g/dL HbA1c; 12.20, 11.99 g/dL Hb	-	Univ. of Missouri. SRL #9
Goldsite Diagnostics Inc.	Astep	Immuno- assay	June '18	0471190207, 0471190207, 0471190207	ALO2651	5.50%, 8.10%, 11.10%, 15.60%	-	ReCCS ASRL#1

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Goldsite Diagnostics Inc.	Aristo	Immuno- assay	June '18	0571181215, 0571181215, 0571181215	ALO2651	5.50%, 8.10%, 11.10%, 15.60%	-	ReCCS ASRL#1
	GSH-60	Immuno- assay	June '18	20190227, 20190227, 20190227	ZS6002, ZS6002	5.53%, 10.63%	-	ReCCS ASRL#1
	Nephstar	Immuno- assay	June '18	0171180117, 0171180117, 0171180117, 0171180117	ALO2651	5.50%, 8.10%, 11.10%, 15.60%	-	ReCCS ASRL#1
	Nephstar-Plus	Immuno- assay	June '18	0271171115, 0271171115, 0271171115, 0271171115,	ALO2651	5.50%, 8.10%, 11.10%, 15.60%	-	ReCCS ASRL#1
	Omlipo	Immuno- assay	June '18	0371190207, 0371190207, 0371190207, 0371190207	ALO2651	5.50%, 8.10%, 11.10%, 15.60%	-	ReCCS ASRL#1
Ortho Clinical Diagnostics	%A1c on Vitros 5,1 FS	Immuno- assay	June '18	6438	3168	0.190, 0.839, 1.631, 3.888 g/dL HbA1c; (-1.176), 2.610, 7.044, 16.111 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 4600	Immuno- assay	June '18	6438	3168	0.189, 0.845, 1.632, 3.801 g/dL HbA1c; (-1.176), 2.610, 7.044, 16.111 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 5600	Immuno- assay	June '18	6438	3168	0.189, 0.845, 1.632, 3.801 g/dL HbA1c; (-1.176), 2.610, 7.044, 16.111 g/dL Hb	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics	DCA Vantage	Immuno- assay	June '18	0851038	-	-	-	Univ. of Missouri. SRL #9
Wuxi Biohermes Bio & Medical Technology Co., Ltd.	Boronate Affinity on A1cChek Express Glycohemoglobin Analysis System	Boronate affinity	June '18	CAP18042508	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on A1C EZ 2.0 Glycohemoglobin Analysis System	Boronate affinity	June '18	CAP18040808	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on A1cChek Pro Glycohemoglobin Analysis System	Boronate affinity	June '18	CAW18041708	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on GluCoA1c Blood Glucose and Glycohemoglobin Analysis System	Boronate affinity	June '18	CAG18041006	-	-	-	Zhongshan Hospital ASRL#2

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Roche Diagnostics GmbH	TQ HbA1c Gen. 3 whole blood on cobas c501/502 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '18	301167, 240192	126358	0.134, 0.343, 0.678, 0.946, 1.292, 1.847 mmol/L HbA1c; 1.448, 7.811 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 '18	294176, 230103, 300409	160061	0.139, 0.361, 0.714, 0.989, 1.370, 1.949 mmol/L HbA1c; 1.420, 7.62 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 '18	300409, 294176	160061	0.142, 0.362, 0.714, 0.987, 1.365, 1.940 mmol/L HbA1c; 1.42, 7.62 mmol/L Hb	-	Univ. of Missouri. SRL #9
Tosoh Corporation	[†] G7 HbA1c Standard Analysis Mode (1.2 min) HLC- 723G7	Ion- exchange HPLC	June '18	K7-101D, K7-201C, 7- 303C, HW- 23C	ZS7001	5.70%, 10.90%	K	Univ. of Missouri. SRL #9
	[†] G8 HbA1c Standard Analysis Mode (1.0 min) HLC- 723G8	Ion- exchange HPLC	June '18	K8-101C, K8-201C, 8- 303B, HW- 23C	ZS7001	5.70%, 10.90%	K	Univ. of Missouri. SRL #9
	[†] G8 HbA1c Standard Analysis Mode (1.0 min), HLC- 723G8	Ion- exchange HPLC	June '18	K8-101C, K8-201C, 8- 303B, HW- 23C	JS7001	5.76%, 10.87%	K	Univ. of Missouri. SRL #9
	[†] G9 HbA1c, HLC-723G9	Ion- exchange HPLC	June '18	D9-101C, D9-201C, 9- 301C, HW- 23C	JS7001	5.76%, 10.87%	D	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode Ver. 5.24 (1.6 min), HLC- 723G8	Ion- exchange HPLC	June '18	H8-104C, H8-202C, H8-308C, HW-23C	ZS7001	5.70%, 10.90%	H	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode (1.6 min), HLC-723G8	Ion- exchange HPLC	June '18	H8-104C, H8-202C, H8-308C, HW-23C	ZS7001	5.70%, 10.90%	H	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode Ver. 5.23 (1.6 min), HLC- 723G8	Ion- exchange HPLC	June '18	H8-104C, H8-202C, H8-308C, HW-23C	ZS7001	5.70%, 10.90%	H	Univ. of Missouri. SRL #9
	G7 HbA1c Variant Analysis Mode (2.2 min), HLC-723G7	Ion- exchange HPLC	June '18	M7-103C, M7-203C, M7-305C, HW-23C	ZS7001	5.70%, 10.90%	M	Univ. of Missouri. SRL #9
	[†] GX HLC-723GX	Ion- exchange HPLC	June '18	AX-108C, AX-208C, AX-308C, HW-23C	ZS7001	5.70%, 10.90%	A	Univ. of Missouri. SRL #9

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Tosoh Corporation	¹ GX HLC-723GX	Ion- exchange HPLC	June '18	AX-108C, AX-208C, AX-308C, HW-23C	JS7001	5.76%, 10.87%	A	Univ. of Missouri. SRL #9
	¹ G11, Standard Analysis Mode (0.5 min), HLC- 723G11	Ion- exchange HPLC	June '18	C1-105C, C1-201B, 1- 301B, HW- 23C	ZS7001	5.70%, 10.90%	C	Univ. of Missouri. SRL #9
	¹ G11, Standard Analysis Mode (0.5 min), HLC- 723G11	Ion- exchange HPLC	June '18	C1-105C, C1-201B, 1- 301B, HW- 23C	JS7001	5.76%, 10.87%	C	Univ. of Missouri. SRL #9
	¹ G11, Variant Analysis Mode (1.0 min), HLC- 723G11	Ion- exchange HPLC	June '18	B1-101B, B1-201B, B1-301B, HW-20B	ZS7001	5.70%, 10.90%	B	Univ. of Missouri. SRL #9
Beckman Coulter, Inc.	Uni Cel Dx C Synchron Systems on HBA1c3 UniCel Dx C 800	Immuno- assay	May '18	M709131	M611472	0.186, 0.454, 0.859, 1.593, 2.488 g/dL HbA1c; 17.77, g/dL Hb	-	Univ. of Missouri. SRL #9
Home Access Health Corporation	Red blood cell-serum strip-based cassettes on Beckman AU680 with B00389 reagents	Immuno- assay	May '18	M801061, 1035	1035	0.184, 0.432, 0.803, 1.479, 2.253 g/dL HbA1c; 12.11 g/dL Hb	-	Univ. of Missouri. SRL #9
Genrui Biotech Inc	Nephelometry on Specific Protein Analyzer PA50/PA54	Immuno- assay	May '18	20180228	-	-	-	ReCCS ASRL#1
	Nephelometry on Fully-auto Specific Protein Analyzer PA120	Immuno- assay	May '18	20180228	-	-	-	ReCCS ASRL#1
Abbott Diagnostics	HbA1c (Hemolysate) on Architect c8000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '18	52092UQ12, 52092UQ12, 52092UQ	51180UQ05	3.37, 17.16 µmol/L HbA1c; 100.6, 168.2 µmol/L THb	-	Univ. of Missouri. SRL #9
	HbA1c (Hemolysate) on Architect c4000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '18	52092UQ12, 52092UQ12, 52092UQ	51180UQ05	3.37, 17.16 µmol/L HbA1c; 100.6, 168.2 µmol/L THb	-	Univ. of Missouri. SRL #9

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Abbott Diagnostics	HbA1c (Whole Blood) on Architect c4000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '18	52092UQ12, 52092UQ12, 52092UQ	51180UQ05	3.37, 17.16 µmol/L HbA1c; 100.6, 168.2 µmol/L THb	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Architect c8000 %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '18	52092UQ12, 52092UQ12, 52092UQ	51180UQ05	3.37, 17.16 µmol/L HbA1c; 100.6, 168.2 µmol/L THb	-	Univ. of Missouri. SRL #9
	HbA1c (Hemolysate) on Alinity %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '18	51794UQ10, 51794UQ10, 51794UQ	50271UQ08, 50271UQ08	5.0%, 11.5%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on Alinity c analyzer %NGSP=HbA1c/ Hb*91.48+2.152	Enzymatic	May '18	51794UQ10, 51794UQ10, 51794UQ	50271UQ08, 50271UQ08	5.0%, 11.5%	-	Univ. of Missouri. SRL #9
Nihon Kohden Corporation	Celltac Chemi HbA1c on CHM-4100	Immuno- assay	May '18	87053	CEN007	0.0%, 4.4%, 6.9%, 9.7%, 13.1%	-	ReCCS ASRL#1
Alfa Wassermann Diagnostic Technologies, LLC	ACE Alera Clinical Chemistry System	Immuno- assay	May '18	1856HA, 1857HA, 1859HA, 1858HA	414086	0.00, 0.47, 0.65, 0.88, 1.35, 2.09 g/dL HbA1c; 18.8 g/dL Hb	-	Univ. of Missouri. SRL #9
	ACE Axcel Clinical Chemistry System	Immuno- assay	May '18	1856HA, 1857HA, 1859HA, 1858HA	414086	0.00, 0.47, 0.65, 0.88, 1.35, 2.09 g/dL HbA1c; 18.8 g/dL Hb	-	Univ. of Missouri. SRL #9
Greencross Medical Science	Boronate Affinity on GREENCARE- A1c	Boronate Affinity	May '18	RT101IMW	-	-	-	Univ. of Missouri. SRL #9
MedTest	Pointe Scientific, HbA1c on Immunoturbidi metric on Mindray BS480	Immuno- assay	Apr '18	734502	704101	0.0%, 5.1%, 7.9%, 11.0%, 15.5%	-	European Reference Lab ESRL#13
	Pointe Scientific, HbA1c on Immunoturbidi metric on Mindray BA800M	Immuno- assay	Apr '18	734502	704101	0.0%, 5.3%, 8.3%, 11.9%, 15.9%	-	European Reference Lab ESRL#13

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Siemens Healthcare Diagnostics Inc.	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia XPT	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 2400	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 1800	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Atellica CH	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia XPT	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 2400	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 1800	Enzymatic	Apr '18	080	7HS002, 7HS002	2.95, 16.93 µmol/L A1c; 99.3, 154.6 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Hemoglobin A1c 3 (A1c_3)- Automated Pretreatment on Advia 1800	Immuno- assay	Apr '18	360	7JD011	2.67, 3.84, 5.04, 6.71, 10.83 µmol/L A1c; 12.15 g/dL tHb	-	Univ. of Missouri. SRL #9
Nova Biomedical	Allegro, Immunoassay	Immuno- assay	Apr '18	18015007	-	-	-	Univ. of Missouri. SRL #9
SD Biosensor, Inc.	MultiCare Analyzer	Immuno- assay	Apr '18	MS1018001	-	-	-	ReCCS ASRL#1
Sebia	Capillarys HbA1c on Capillarys 2 Flex Piercing %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '18	05127/80, 09095/01, 22116/01	05047/01, 06047/01	36.8, 88.3 mmol/mol	-	European Reference Lab ESRL#10

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Sebia	Minicap HbA1c %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '18	02056/01, 08045/01, 26067/01	05047/01, 06047/01	36.8, 88.3 mmol/mol	-	European Reference Lab ESRL#10
	CAPI 3 HbA1c on Capillarys 3 %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '18	05028/01, 26107/01, 11107/01	22087/01, 23087/01	37.2, 86.2 mmol/mol	-	European Reference Lab ESRL#10
Wiener Laboratorios S.A.I.C.	[†] HbA1c v.2 Turbitest AA on CMD 800 X1 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '18	238760, 238740, 238820, 227130	229990	2.770 g/dL HbA1c; 12.7 g/dL Hb	-	Univ. of Missouri. SRL #9
	[†] HbA1c v.2 Turbitest AA on CM 250 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '18	238760, 238740, 238820, 227130	229990	2.770 g/dL HbA1c; 12.7 g/dL Hb	-	Univ. of Missouri. SRL #9
	[†] HbA1c v.2 Turbitest AA on CB 350i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '18	238760, 238740, 238820, 227130	229990	2.770 g/dL HbA1c; 12.7 g/dL Hb	-	Univ. of Missouri. SRL #9
	[†] HbA1c v2 Turbitest AA on CT600i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '18	238760, 238740, 238820, 227130	229990	2.770 g/dL HbA1c; 12.7 g/dL Hb	-	Univ. of Missouri. SRL #9
	[†] HbA1c v2 Turbitest AA on CMD 600 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '18	238760, 238740, 238820, 227130	229990	2.770 g/dL HbA1c; 12.7 g/dL Hb	-	Univ. of Missouri. SRL #9
Fujirebio Inc.	[†] Rapidia Auto HbA1c-L on BiOLis24i Premium	Immuno- assay	Apr '18	QF71105, RF71105, SF70702	VF71104	0.0%, 4.2%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on JCA-BM9130	Immuno- assay	Apr '18	QF71105, RF71105, SF70702	VF71104	0.0%, 4.2%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] AU-Synchron Reagent HbA1c on AU680	Immuno- assay	Apr '18	F9A914, F9A914, H2A010,	H2A010	0.0%, 4.2%, 6.8%, 9.5%, 13.2%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on AU680	Immuno- assay	Apr '18	QF71105, RF71105, SF70702	VF71104	0.0%, 4.2%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on Hitachi 7170s	Immuno- assay	Apr '18	QF71105, RF71105, SF70702	VF71104	0.0%, 4.2%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
	[†] Rapidia Auto HbA1c-L on TBA-120FR	Immuno- assay	Apr '18	QF71105, RF71105, SF70702	VF71104	0.0%, 4.2%, 6.9%, 9.6%, 13.3%	-	ReCCS ASRL#1
Alere Technologies AS	Afinion HbA1c / Afinion AS100 Analyzer	Boronate affinity	Apr '18	10185044	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c Dx / Afinion AS100 Analyzer	Boronate affinity	Apr '18	10185044	-	-	-	European Reference Lab ESRL #11

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Alere Technologies AS	NycoCard HbA1c on NycoCard Reader II	Boronate affinity	Apr '18	10190662, 10190900, 10193095	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c Dx / Afinion 2 Analyzer	Boronate affinity	Apr '18	10185044	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c / Afinion 2 Analyzer	Boronate affinity	Apr '18	10185044	-	-	-	European Reference Lab ESRL #11
Arkray, Inc.	[†] ADAMS A1c HA-8160 VP mode	Ion- exchange HPLC	Apr '18	17060931, 17080212, 17062333, 17062914	S7001, S7002	5.2%, 10.9%; 5.3%, 10.7%	7K051Y	ReCCS ASRL#1
	[†] ADAMS A1c HA-8160 TP mode	Ion- exchange HPLC	Apr '18	17060931, 17080212, 17062934, 17062914	S7001, S7002	5.2%, 10.9%; 5.3%, 10.7%	7K042W	ReCCS ASRL#1
	[†] ADAMS A1c HA-8160 (Ver.1)	Ion- exchange HPLC	Apr '18	17041211, 17080212, 17033113, 17062914	S7001, S7002	5.2%, 10.9%; 5.3%, 10.7%	7E001X	ReCCS ASRL#1
	[†] ADAMS A1c HA-8160 (Ver.4)	Ion- exchange HPLC	Apr '18	17090657, 17120858, 17062259, 17121855	S7001, S7002	5.2%, 10.9%; 5.3%, 10.7%	7K041F	ReCCS ASRL#1
	[†] ADAMS A1c HA-8170	Ion- exchange HPLC	Apr '18	17090657, 17120858, 17062259, 17121855	S7001, S7002	5.2%, 10.9%; 5.3%, 10.7%	7K051G	ReCCS ASRL#1
	[†] ADAMS A1c HA-8180	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7E051N	ReCCS ASRL#1
	ADAMS A1c HA-8180V Variant mode	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7E1401, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7K155U	ReCCS ASRL#1
	[†] ADAMS A1c HA-8180V Fast mode	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7E1402, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7K155U	ReCCS ASRL#1
	[†] ADAMS A1c HA-8180T	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7D1601, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	8A001L	ReCCS ASRL#1
	[†] ADAMS HYBRID AH- 8290	Ion- exchange HPLC	Apr '18	7J1002, 7J1022, 8A1041	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7H245N	ReCCS ASRL#1
	[†] ADAMS A1c HA-8181	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7L352N	ReCCS ASRL#1
	[†] ADAMS HYBRID AH- 8280	Ion- exchange HPLC	Apr '18	7J1002, 7C1022, 7J1041	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7C299N	ReCCS ASRL#1
	[†] ADAMS A1c HA-8190V Fast mode	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7E1401, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7C024V	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
Arkray, Inc.	[†] ADAMS A1c HA-8190V Variant mode	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7E1401, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7C024V	ReCCS ASRL#1
	[†] CinQ HbA1c on JCA- BM6010 HbA1c%(NGSP)=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '18	MFF13, MFG11	CAC7J19	2.80, 7.17 μmol/L HbA1c; 97.3 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 '18	MFF13, MFG11	1704	2.46, 7.40 μmol/L HbA1c; 95.9 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 '18	MFF13, MFG11	CAC7J19	2.80, 7.17 μmol/L HbA1c; 97.3 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 '18	MFF13, MFG11	1704	2.46, 7.40 μmol/L HbA1c; 95.9 μmol/L Hb	-	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7L351N	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380V Fast mode	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7E1401, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7K154U	ReCCS ASRL#1
	[†] ADAMS A1c Lite HA-8380V Variant mode	Ion- exchange HPLC	Apr '18	7K1013, 8A1021, 7E1401, 7K1054	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7K154U	ReCCS ASRL#1
	[†] ADAMS A1c HA-8182	Ion- exchange HPLC	Apr '18	7J1002, 7J1022, 8A1041	S7001, S7002	5.2%, 10.9%; 5.3%, 10.8%	7E191U	ReCCS ASRL#1
Sakae Corporation	[†] Medidas HbA1c on A1c GEAR	Immuno- assay	Apr '18	461711	STS004	0.0%, 4.7%, 6.9%, 9.8%, 13.2%	-	ReCCS ASRL#1
	[†] Medidas HbA1c on A1c iGEAR	Immuno- assay	Apr '18	461711	STS004	0.0%, 4.7%, 6.9%, 9.8%, 13.2%	-	ReCCS ASRL#1
	[†] Medidas HbA1c on A1c iGEAR Quick	Immuno- assay	Apr '18	461711	STS004	0.0%, 4.7%, 6.9%, 9.8%, 13.2%	-	ReCCS ASRL#1
PTS Diagnostics	A1Cnow+; A1Cnow SELFCHECK	Immuno- assay	Mar '18	B711011	-	-	-	Univ. of Missouri. SRL #9
Trinity Biotech	Boronate Affinity HPLC on PDQ	Boronate affinity HPLC	Mar '18	7990, 8008, 7264, 7867	7301, 7302	5.7%, 10.4%	7742	Univ. of Missouri. SRL #11

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Manufacturer	Method/ Instrument	Method Type	Date Certified	Reagent Lot	Calibrator Lot	Calibrator Assigned Value	Column Lot	Secondary Reference Laboratory
Trinity Biotech	Boronate Affinity HPLC on <i>ultra</i> ²	Boronate affinity HPLC	Mar '18	7990, 8008, 7264, 7254	7301, 7302	5.8%, 10.8%	7742	Univ. of Missouri. SRL #11
	Boronate Affinity HPLC on Premier Hb9210	Boronate affinity HPLC	Mar '18	7972, 7236, 7906, 7254	7301, 7302	5.9%, 10.8%	7686	Univ. of Missouri. SRL #11
Sekisui Medical Co., Ltd.	¹ L type Norudia N HbA1c on Hitachi LST008	Enzymatic	Mar '18	104RJO, 104RJO, 105RJO	103RIO	3.47, 15.08 μmol/L HbA1c; 101.7, 145.5 μmol/L Hb	-	ReCCS ASRL#1
	¹ L type Norudia N HbA1c on Hitachi LST006	Enzymatic	Mar '18	104RJO, 104RJO, 105RJO	103RIO	3.47, 15.08 μmol/L HbA1c; 101.7, 145.5 μmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on Hitachi 7170S	Enzymatic	Mar '18	104RHO, 104RHO, 105RJO	105RIO	3.45, 15.17 μmol/L HbA1c; 98.8, 149.4 μmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on EV800	Enzymatic	Mar '18	104RJO, 104RHO, 105RJO	105RIO	3.45, 15.17 μmol/L HbA1c; 98.8, 149.4 μmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on TBA- 120FR	Enzymatic	Mar '18	104RHO, 104RHO, 105RJO	105RIO	3.45, 15.17 μmol/L HbA1c; 98.8, 149.4 μmol/L Hb	-	ReCCS ASRL#1
	¹ Norudia N HbA1c on JCA- BM9130	Enzymatic	Mar '18	104RHO, 104RHO, 105RJO	105RIO	3.45, 15.17 μmol/L HbA1c; 98.8, 149.4 μmol/L Hb	-	ReCCS ASRL#1
	¹ Adams A1c mini	Ion- exchange HPLC	Mar '18	1110001917	1206000717	5.39%, 11.46%	1008009417	ReCCS ASRL#1
	¹ RC20	Ion- exchange HPLC	Mar '18	1701190014	1710300014	5.36%, 11.48%	1612220048	ReCCS ASRL#1
	¹ HbA1c Auto TBA on TBA- 120FR	Enzymatic	Mar '18	104RHO, 104RHO, 104RJO	103RIO	3.45, 15.17 μmol/L HbA1c; 98.8, 149.4 μmol/L Hb	-	ReCCS ASRL#1
Kyowa Medex Co., Ltd.	¹ Determiner HbA1c on DM- JACK	Immuno- assay	Mar '18	376AGK, 376AGL	514AGL	0.0%, 4.8%, 9.1%, 13.4%, 15.4%	-	ReCCS ASRL#1
	¹ Determiner HbA1c on JCA- BM9130	Immuno- assay	Mar '18	399AGK, 398AGJ	514AGL	0.0%, 4.8%, 8.9%, 13.2%, 15.7%	-	ReCCS ASRL#1
	¹ Determiner L HbA1c on DM- JACK	Immuno- assay	Mar '18	146AGI, 146AGI	318AGJ	0.0%, 4.5%, 6.7%, 9.8%, 13.1%	-	ReCCS ASRL#1
	¹ Determiner L HbA1c on JCA- BM9130	Immuno- assay	Mar '18	146AGI, 146AGI	318AGJ	0.0%, 4.5%, 6.6%, 9.7%, 13.2%	-	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
Kyowa Medex Co., Ltd.	^t Determiner L HbA1c on Hitachi 7180	Immuno- assay	Mar '18	146AGI, 146AGI	317AGG	0.0%, 4.3%, 6.9%, 9.8%, 13.4%	-	ReCCS ASRL#1
	^t Determiner L HbA1c on TBA- 120FR	Immuno- assay	Mar '18	146AGI, 146AGI	318AGJ	0.0%, 4.5%, 6.6%, 9.7%, 13.2%	-	ReCCS ASRL#1
Archem Diagnostic Industry Ltd.	hbA1c 2nd Gen. Reagent Immuno-assay on Dirui CS	Immuno- assay	Mar '18	975	014	5.9%, 8.1%, 12.5%, 15.5%	-	European Reference Lab ESRL #13
J. Mitra & Co. Pvt Limited	Fluorescence immunoassay on i-Quant Analyser	Immuno- assay	Feb '18	HBQ031117	-	-	-	European Reference Lab ESRL #10
Human Gesellschaft für Biochemica und Diagnostica mbH	HPLC on HumanNex A1c	Ion- exchange HPLC	Feb '18	171201, 171201, 171201	7050	5.39%, 11.07%	171201	Univ. of Missouri. SRL #9
Green Cross Medis Corp.	Boronate Affinity on Cera-Stat 4000 (Merilyzer Merichack Analyzer)	Boronate Affinity	Feb '18	H07G241, H07G242, HC433DON EW	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity on Cera-Stat 2000 (QDx A1c Analyzer)	Boronate Affinity	Feb '18	H07G241, H07G242, HC233DHX EW	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity LabonaCheck A1c HbA1c Analyzer (Model: MH200), A1Card HbA1c Analyzer	Boronate Affinity	Feb '18	H07G241, H07G242, HM236DHX EW	-	-	-	Univ. of Missouri. SRL #9
Dirui Industrial Co., Ltd	Whole Blood – Latex Agglutination Method on CS- 480	Immuno- assay	Feb '18	20170524, 20170524, 20170524	20170609	0%, 5.3%, 8%, 11.1%, 15.2%	-	Zhongshan Hospital ASRL#2
	Whole Blood – Latex Agglutination Method on CS- 1300B	Immuno- assay	Feb '18	20170524, 20170524, 20170524	20170609	0%, 5.3%, 8%, 11.1%, 15.2%	-	Zhongshan Hospital ASRL#2
	Whole Blood – Latex Agglutination Method on CS- 680	Immuno- assay	Feb '18	20170524, 20170524, 20170524	20170609	0%, 5.3%, 8%, 11.1%, 15.2%	-	Zhongshan Hospital ASRL#2
UMA Co, Ltd	Measure HbA1c II on Hitachi 7180	Immuno- assay	Feb '18	266AGL, 172AGD	122AGK	0.0%, 5.4%, 7.7%, 11.9%, 15.6%	-	ReCCS ASRL#1
Shanghai Huizhong Medical Science and Technology Co. Ltd (China)	HPLC on MQ- 6000	Ion- exchange HPLC	Feb '18	20170705D, 20170705D, 20170705D, 20170705D	20170815	5.89%, 10.85%	20170705D- 38#	Univ. of Missouri. SRL #9

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Shanghai Huizhong Medical Science and Technology Co. Ltd (China)	HPLC on MQ- 2000PT	Ion- exchange HPLC	Feb '18	PTHbA1c17 1201N, PTHbA1c17 1201N, PTHbA1c17 1201N,	20170815	5.84%, 11.02%	PTHb1ac171 201N-342#	Univ. of Missouri. SRL #9
Thermo Fisher Scientific Oy	HbA1c for Konelab on Konelab PRIME 60 (HbA1c% (DCCT)=91.5* HbA1c/Hb+2.15	Immuno- assay	Feb '18	N653, NA96	N882	1.570 mmol/L HbA1c; 8.378 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c for Indiko on Indiko Plus (HbA1c% (DCCT)=91.5* HbA1c/Hb+2.15	Immuno- assay	Feb '18	NC12, NA96	N882	1.570 mmol/L HbA1c; 8.378 mmol/L Hb	-	European Reference Lab ESRL #13
Zivak Teknoloji Sanayi ve Ticaret Limited Sirketi	Zivak HB-110 Full automated HbA1c/Variant HPLC Analyzer	Ion- exchange HPLC	Feb '18	HB1706R1, HB1706MA, HB1706MB	HB1705S1, HB1705S2	5.60%, 10.20%	HB1722C1	European Reference Lab ESRL #10
	Zivak HB-100 Full automated HbA1c/Variant HPLC Analyzer	Ion- exchange HPLC	Feb '18	HB1705R1, HB1705MA, HB1705MB	HB1704S1, HB1704S2	5.60%, 10.20%	HB1721C1	European Reference Lab ESRL #10
Shenzhen Lifotronic Technology Co., Ltd.	Ion-exchange HPLC on GH- 900 HbA1c Analyzer	Ion- exchange HPLC	Jan '18	821731	2017080801	5.2%, 8.8%	GH17604750	ReCCS ASRL#1
	Ion-exchange HPLC on H8 Hemoglobin Analyzer	Ion- exchange HPLC	Jan '18	H8V17003	H8V1700301	5.3%, 9.4%	33039011770 2736	ReCCS ASRL#1
	Ion-exchange HPLC on H9 Hemoglobin Analyzer	Ion- exchange HPLC	Jan '18	H9V17020	H9V1702001	5.4%, 9.7%	33039011770 2732	ReCCS ASRL#1
	Lateral Flow Immunoassay on FA-160	Immuno- assay	Jan '18	851714	-	-	-	ReCCS ASRL#1
Fujikura Kasei Co., Ltd.	HbA1c-F on Hitachi 7180	Immuno- assay	Jan '18	W17G151C	W17F011C	5.0%, 8.7%, 12.1%, 16.0%	-	ReCCS ASRL#1
	HbA1c-FW on Hitachi 7180	Immuno- assay	Jan '18	W17K011W	W17F012W	5.0%, 8.7%, 11.9%, 15.7%	-	ReCCS ASRL#1
Erba Lachema	ERBA Hb-Vario	Ion- exchange HPLC	Jan '18	B061744, B061744, B061744	160396A, 160397A	5.73%, 11.93%	B061744- CM	Univ. of Missouri. SRL #9
Boditech Med Inc.	Immuno-assay on ichroma Reader	Immuno- assay	Jan '18	AANKC10, AANKC10, AANKC10	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
	Immuno-assay on ichroma II	Immuno- assay	Jan '18	AANKC10, AANKC10, AANKC10	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
	Immuno-assay on AFIAS-50	Immuno- assay	Jan '18	AANKC10, AANKC10, AANKC10	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
	Immuno-assay on ichroma M	Immuno- assay	Jan '18	AANKA01M	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
TaiDoc Technology Corp.	Immunoassay on TD-4611	Immuno- assay	Jan '18	171201	609103	5.4%, 11.7%	-	European Reference Lab ESRL#13

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Bio-Rad Laboratories	† VARIANT II Dual (A1c)	Ion- exchange HPLC	Jan '18	64121304, 64121305, 64093821	64119452, 64119463	5.2%, 10.3%	CA60425	Univ. of Minn SRL #10
	† VARIANT II Dual (A2/F/A1c)	Ion- exchange HPLC	Jan '18	64121304, 64121305, 64093821	64119446, 64119448	5.5%, 10.2%	CA60425	Univ. of Minn SRL #10
	D-10 Dual A2/F/A1c	Ion- exchange HPLC	Jan '18	AA70302, AA70303, AA70362	AA70375, AA70376	10.2%, 5.8%	D50456G	Univ. of Minn SRL #10
	D-10 HbA1c	Ion- exchange HPLC	Jan '18	AA70366, AA70367, AA70200	AA70313, AA70314	5.4%, 10.8%	A50456AC	Univ. of Minn SRL #10
	D-100 HbA1c	Ion- exchange HPLC	Jan '18	64136481, 64136482, 64129250	64144563, 64144563	6.00%, 9.15%	60415AA	Univ. of Minn SRL #10
	Variant II HbA1c NU	Ion- exchange HPLC	Jan '18	64123447, 64123450, 64095911	64102645, 64102647	5.3%, 10.2%	NU50270G	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c	Ion- exchange HPLC	Jan '18	64096616, 64096617, 64086026	64132018, 64132020	5.2%, 10.1%	LV31342K	Univ. of Minn SRL #10
	VARIANT II TURBO Link HbA1c	Ion- exchange HPLC	Jan '18	64116126, 64123053, 64122818	64132022, 64132023	5.2%, 10.1%	LLV31342S	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0 (12000447)	Ion- exchange HPLC	Jan '18	64133283, 64133261, 64126126	64129190, 64129193	5.1%, 10.0%	50285AM	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0	Ion- exchange HPLC	Jan '18	64133257, 64133261, 64126126	64129190, 64129193	5.1%, 10.0%	50285AK	Univ. of Minn SRL #10
Trinity Biotech	Tri-stat 1 HbA1c Assay	Boronate Affinity	Jan '18	6568 (1A)	-	-	-	Univ. of Missouri. SRL #3
	Tri-stat 2 HbA1c Assay	Boronate Affinity	Jan '18	6568 (1A)	-	-	-	Univ. of Missouri. SRL #3
Siemens Healthcare Diagnostics Inc.	Dimension Flex Hb1c on ExL	Immuno- assay	Jan '18	GA8191	GA8191	0.11, 0.53, 1.04, 1.86, 2.30 g/dL HbA1c; 12.20, 11.99 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Flex Hb1c on RxL	Immuno- assay	Jan '18	GA8191	GA8191	0.11, 0.53, 1.04, 1.86, 2.30 g/dL HbA1c; 12.20, 11.99 g/dL Hb	-	Univ. of Missouri. SRL #9
i-SENS	Enzymatic on A1Care Analyzer	Enzymatic	Jan '18	DDFbAC	-	-	-	ReCCS ASRL#1
LITE-ON Technology Corp. H.S.P.B.	Immunoassay on Skyla Hi Analyzer	Immuno- assay	Jan '18	A1ZH1709F	-	-	-	ReCCS ASRL#1
Medical System Biotechnology CO., LTD.	Glycated Hemoglobin A1c kit on Hitachi 7180	Enzymatic Colorimetric	Dec '17	17010901, 17010901, 17010901, 17010901	20170612	6.8%, 11.7%	-	Zhongshan Hospital ASRL#2
	Glycated Hemoglobin A1c kit on MS- 1280	Enzymatic Colorimetric	Dec '17	17010901, 17010901, 17010901, 17010901	20170612	6.8%, 11.7%	-	Zhongshan Hospital ASRL#2

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Medical System Biotechnology CO., LTD.	Glycated Hemoglobin A1c kit on MS- 480	Enzymatic Colorimetric	Dec '17	17010901, 17010901, 17010901, 17010901	20170612	6.8%, 11.7%	-	Zhongshan Hospital ASRL#2
DiaSys Diagnostic Systems GmbH	HbA1c net FS, Reference No. 1 3348 00, respons910	Enzymatic	Dec '17	23215, 23108	24088	0.410, 1.05 g/dL HbA1c; 5.70, 15.1 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, Biomajesty 6010C	Enzymatic	Dec '17	23215, 23108	24088	0.410, 1.05 g/dL HbA1c; 5.70, 15.1 g/dL Hb	-	European Reference Lab ESRL#10
Roche Diagnostics International Ltd	Cobas HbA1c Test on cobas b 101	Immuno- assay	Dec '17	729021-01	-	-	-	Univ. of Missouri. SRL #9
Roche Diagnostics	TQ HbA1c Gen. 3 Whole Blood on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '17	253327, 225759	160061	0.01725, 0.01150, 0.00821, 0.00575, 0.00287, 0.00115 mmol/L HbA1c; 0.07294, 0.04863, 0.03473, 0.02431, 0.01216, 0.00486 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Whole Blood on cobas c311 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '17	253327, 207854	160061	0.130, 0.333, 0.661, 0.921, 1.259, 1.798 mmol/L HbA1c; 1.353, 7.294 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Whole Blood on Cobas c111 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '17	241561, 240193	160061	0.01619, 0.01080, 0.00771, 0.00540, 0.00270, 0.00108 mmol/L HbA1c; 0.07294, 0.04863, 0.03473, 0.02431, 0.01216, 0.00486 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Hemolysate on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '17	253327, 230103, 225759	160061	1.743, 1.162, 0.830, 0.581, 0.291, 0.116 mmol/L HbA1c; 7.294, 4.863, 3.473 2.431, 1.216, 0.486 mmol/L Hb	-	Univ. of Missouri. SRL #9

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Jiangsu Audicom Medical Technology Col, Ltd.	Ion-exchange chromatography on AC6601 HbA1c Analyzer	Ion-exchange HPLC	Dec '17	171001-20, 171001-21, 171001-22, 171001-23 171001-24	170801-26, 170801-27	5.70%, 11.7%	171003-48	Univ. of Missouri. SRL #9
DxGen Corp.	Boronate affinity on Epithod 616 Analyzer, Ep.616	Boronate Affinity	Dec '17	C17H2001R1, C17H2001W1 C17H2001MC	-	-	-	Univ. of Missouri. SRL #9
iXensor Co., LTD.	PixoTest POCT System	Immuno-assay	Dec '17	RDY17D01A, RDY17D01A	-	-	-	ReCCS ASRL#1
Siemens Healthineers	Dimension Vista A1C on Vista 1500	Immuno-assay	Dec '17	17163BC	7FD050	0.11, 0.47, 0.90, 1.58, 2.36 g/dL HbA1c; 13.28, 12.94 g/dL Hb		Univ. of Missouri. SRL #9
	Dimension Vista A1C on Vista 500	Immuno-assay	Dec '17	17163BC	7FD050	0.11, 0.47, 0.90, 1.58, 2.36 g/dL HbA1c; 13.28, 12.94 g/dL Hb		Univ. of Missouri. SRL #9
SD Biosensor, Inc.	STANDARD F100/F200	Immuno-assay	Nov '17	FHB1017003-1	-	-	-	ReCCS ASRL#1
	SD A1cCare System	Immuno-assay	Nov '17	A1C02170030	-	-	-	ReCCS ASRL#1
Biosurfit, S.A.	spinit HbA1c te	Immuno-assay	Nov '17	540101-11300	-	-	-	European Reference Lab ESRL #13
OSANG Healthcare Co., Ltd.	Frontier and HemoCue HbA1c 501	Boronate Affinity	Nov '17	F17G26H17 EL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '17	C17G12G19 DL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '17	A17H08H25 EL	-	-	-	Univ. of Missouri. SRL #9
Shenzhen Labnovation Technologies, Inc.	HPLC on HbA1c LD-500, LD-510, LD-520	Ion-exchange HPLC	Nov '17	20170602, 20170602, 20170602	20170303, 20170303	5.22%, 10.25%	20170602	ReCCS ASRL#1
	HPLC on LD-600, LD-620	Ion-exchange HPLC	Nov '17	20170803, 20170803, 20170803	20170703, 20170703	5.30%, 10.4%	20170803	ReCCS ASRL#1
Boditech Med Inc.	Immuno-assay on AFIAS-6	Immuno-assay	Oct '17	AANDA26F, AANFA28F, AANGA29F	609102	5.3%, 7.7%, 10.2%, 12.7%	-	ReCCS ASRL#1
Siemens Healthineers	Hemoglobin A1C on Dimension EXL	Immuno-assay	Oct '17	GA8009	GA8009	0.20, 0.55, 1.07, 1.81, 2.68 g/dL HbA1c; 12.59, 12.29 g/dL Hb	-	Univ. of Missouri. SRL #9
	Hemoglobin A1C on Dimension RxL	Immuno-assay	Oct '17	GA8009	GA8009	0.20, 0.55, 1.07, 1.81, 2.68 g/dL HbA1c; 12.59, 12.29 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
Siemens Healthineers	Hemoglobin A1c on Dimension Xpand	Immuno- assay	Oct '17	GA8009	GA8009	0.20, 0.55, 1.07, 1.81, 2.68 g/dL HbA1c; 12.59, 12.29 g/dL Hb	-	Univ. of Missouri. SRL #9
Beckman- Coulter Inc.	UniCel DxC Synchron Systems DxC 800	Immuno- assay	Oct '17	M701007, M609621	M701007	0.143, 0.447, 0.850, 1.564, 2.402 g/dL HbA1c; 19.19 g/dL Hb	-	Univ. of Missouri. SRL #9
ROHM Co., Ltd.	Spotchem Banalyst HbA1c on SI-3620	Immuno- assay	Oct '17	1733GHH02O	WC0038	0.0, 25.6, 50.3, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
	Banalyst Ace HbA1c on Banalyst Ace	Immuno- assay	Oct '17	1732GHH01O	WC0038	0.0, 25.6, 50.3, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
	B-analyst HbA1c on B- analyst S1	Immuno- assay	Oct '17	1719GFH03O	WC0038	0.0, 25.6, 50.3, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
	Spotchem Banalyst HbA1c on SI-3610	Immuno- assay	Oct '17	1733GHH02O	WC0038	0.0, 25.6, 50.3, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
Hitachi Chemical Co., Ltd.	Seratestum A1C	Enzymatic	Oct '17	Y7D778	-	-	-	ReCCS ASRL#1
Horiba Medical	HbA1c WB Hemolysate – ABX Pentra C200 ($Y=(0.34*X)+2.26$)	Immuno- assay	Sept '17	1702901	1704201	0.00, 1.75, 3.39, 5.04, 8.58, 13.39 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L Hb}$	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – ABX Pentra 400 ($Y=(0.42*X)+2.1$)	Immuno- assay	Sept '17	1702901	1704201	0.00, 1.63, 3.37, 5.10, 8.83, 13.90 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L Hb}$	-	European Reference Lab ESRL #10
	HbA1c WB Hemolysate – ABX Pentra 400 ($Y=(0.43*X)+1.82$)	Immuno- assay	Sept '17	1702901	1704201	0.00, 2.00, 3.50, 5.01, 8.24, 12.64 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L Hb}$	-	European Reference Lab ESRL #10
	HbA1c WB Hemolysate – ABX Pentra C400 ($Y=(0.43*X)+2.06$)	Immuno- assay	Sept '17	1702901	1704201	0.00, 1.65, 3.22, 4.78, 8.16, 12.73 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L Hb}$	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – ABX Pentra C400 ($Y=(0.42*X)+2.25$)	Immuno- assay	Sept '17	1702901	1704201	0.00, 1.59, 3.37, 5.15, 8.99, 14.19 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L Hb}$	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – YUMIZEN C1200 ($Y=(91.5*X)+2.15$)	Immuno- assay	Sept '17	23107/651	22883	0.387, 1.03 g/dL HbA1c; 5.13, 14.80 g/dL Hb	-	European Reference Lab ESRL #10

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Diazyme Laboratories	Direct HbA1c Assay (Enzymatic, On- Board Lysis) on Roche Modular P800	Enzymatic	Sept '17	HAL02170, HA102170, HA202170	HAS102170, HAS202170	5.8%, 10.4%	-	Univ. of Minnesota SRL #10
EKF Diagnostics GmbH	[†] Boronate Affinity Quo- Test HbA1c	Boronate affinity	Sept '17	020409	-	-	-	European Reference Lab ESRL #11
	[†] Boronate Affinity Quo- Lab HbA1c	Boronate affinity	Sept '17	025380	-	-	-	European Reference Lab ESRL #11
Human Gesellschaft fuer Biochemica und Diagnostica mbH	[†] HumaMeter HbA1c	Boronate affinity	Sept '17	025374, 025375, 025376	-	-	-	European Reference Lab ESRL #11
Beckman Coulter Ireland Inc.	HbA1c B00389 Manual Application AU5800	Immuno- assay	Sept '17	0033, M701186	0033	0.099, 0.275, 0.512, 0.951, 1.422 mmol/L HbA1c; 8.66 mmol/L THb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU2700	Immuno- assay	Sept '17	0033, M701186	0033	0.099, 0.275, 0.512, 0.951, 1.422 mmol/L HbA1c; 8.66 mmol/L THb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU680	Immuno- assay	Sept '17	0033, M701186	0033	0.099, 0.275, 0.512, 0.951, 1.422 mmol/L HbA1c; 8.66 mmol/L THb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU480	Immuno- assay	Sept '17	0033, M701186	0033	0.099, 0.275, 0.512, 0.951, 1.422 mmol/L HbA1c; 8.66 mmol/L THb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application DxC 700 AU	Immuno- assay	Sept '17	0033, M701186	0033	0.099, 0.275, 0.512, 0.951, 1.422 mmol/L HbA1c; 8.66 mmol/L THb	-	European Reference Lab ESRL #13
Kyowa Medex Co., Ltd.	[†] MetaboLead HbA1c on JCA- BM9130	Enzymatic	Sept '17	143AGE, 143AGE	146AGA	2.13, 9.11 µmol/L HbA1c; 82.3, 118.7 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on DM- JACK	Enzymatic	Sept '17	143AGE, 143AGE	146AGA	2.13, 9.11 µmol/L HbA1c; 82.3, 118.7 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on Hitachi-7180	Enzymatic	Sept '17	143AGE, 143AGE	146AGA	2.13, 9.11 µmol/L HbA1c; 82.3, 118.7 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on TBA- 120FR	Enzymatic	Sept '17	143AGE, 143AGE	146AGA	2.13, 9.11 µmol/L HbA1c; 82.3, 118.7 µmol/L Hb	-	ReCCS ASRL#1

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Kyowa Medex Co., Ltd.	¹ MetaboLead HbA1c on LABOSPECT 006	Enzymatic	Sept '17	143AGE, 143AGE	146AGA	2.13, 9.11 μmol/L HbA1c; 82.3, 118.7 μmol/L Hb	-	ReCCS ASRL#1
JEOL Ltd.	¹ BM Test HbA1c on JCA- BM 6010/C	Enzymatic	Sept '17	829RLN, 829RLN, 828RLN	912RIN, 912RIN	3.43, 16.96 μmol/L HbA1c; 103.7, 158.4 μmol/L Hb	-	ReCCS ASRL#1
Agappe Diagnostics Ltd.	¹ AgA1C (Immunoturbidi metric method) on TBA 25 FR	Immuno- assay	Sept '17	17030014, 17030015, 17060062	27070181, 27070182, 27070183, 27070184	5.80%, 10.60%, 13.80%, 16.40%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on TBA 120 FR	Immuno- assay	Sept '17	17030014, 17030015, 17060062	27070181, 27070182, 27070183, 27070184	5.80%, 10.60%, 13.80%, 16.40%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Turbiquick	Immuno- assay	Sept '17	16080096, 16080097, 17060062	27020030, 27020031, 27020032, 27020034	5.50%, 9.70%, 13.30%, 16.10%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Nano	Immuno- assay	Sept '17	17030014, 17030015, 17060062	27070181, 27070182, 27070183, 27070184	6.60%, 10.80%, 14.00%, 16.40%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Clinia	Immuno- assay	Sept '17	17030014, 17030015, 17060062	27070181, 27070182, 27070183, 27070184	5.80%, 10.60%, 13.80%, 16.40%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Ace	Immuno- assay	Sept '17	17030014, 17030015, 17060062	27070181, 27070182, 27070183, 27070184	6.60%, 10.80%, 14.00%, 16.40%	-	European Reference Lab ESRL#10
	¹ Nephelometry on Specific Protein Analyzer Mispa i2	Immuno- assay	Sept '17	17030014, 17030015, 17060062	27070181, 27070182, 27070183, 27070184	5.80%, 10.60%, 13.80%, 16.40%	-	European Reference Lab ESRL#10
	¹ Nephelometry on cartridge based Specific Protein Analyzer Mispa i3	Immuno- assay	Sept '17	17040048, 16090101, 17060062	27070181, 27070182, 27070183, 27070184	5.80%, 10.60%, 13.80%, 16.40%	-	European Reference Lab ESRL#10
Green Cross Medis Corp.	Boronate Affinity on LabonaCheck A1c Analyzer (model: MH200), A1Card HbA1c Analyzer	Boronate affinity	Sept '17	H07F141, H07F142, MH236DSN EW	-	-	-	Univ. of Missouri. SRL #9
Apex Biotechnology Corp.	Immunoaggluti nation on Eclipse A1c	Immuno- assay	Sept '17	S70402	-	-	-	ReCCS ASRL#1
Sugentech	Immunoassay on INCLIX	Immuno- assay	Aug '17	HBAT17001	-	-	-	ReCCS ASRL#1

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GuangDong Uniten Biotechnology Co., Ltd.	Boronate affinity on Specific Protein analyzer (Model: Abeille), V1.0.4	Boronate affinity	Aug '17	01A2017060 1	3120160919 L, 3120160919 H	5.4%, 10.0%	-	Zhongshan Hospital ASRL#2
	Boronate affinity on Specific Protein analyzer (Model: UNT5000), V1.0.4.9	Boronate affinity	Aug '17	01R1201706 01, 01R2201706 01, T20170503	3120160919 L, 3120160919 H	5.4%, 10.0%	-	Zhongshan Hospital ASRL#2
	HPLC on Glycohemoglobi n analyzer (Model: HA- 120) V1.0.2.10	Ion- exchange HPLC	Aug '17	2820160920, 2920160920, 3220160920	3120160919 L, 3120160919 H	5.4%, 10.0%	2720160920	Zhongshan Hospital ASRL#2
	Boronate affinity on Glycohemoglobi n analyzer (Model: UNT4000), V1.0.4.9	Boronate affinity	Aug '17	01R1201706 01, 01R2201706 01, T20170503	3120160919 L, 3120160919 H	5.4%, 10.0%	-	Zhongshan Hospital ASRL#2
Guangzhou Wondfo Biotech Co., Ltd.	Fluorescence Immunoassay on Finecare FIA Meter	Immuno- assay	Aug '17	F2071150A A	-	-	-	ReCCS ASRL#1
Bio-Rad Laboratories, Inc.	D-10 HbA1c (12000949)	Ion- exchange HPLC	Aug '17	AA70198, AA70199, AA70193	AA70084, AA70085	5.3%, 10.2%	A50456L	Univ. of Minnesota SRL #10
ACON Laboratories, Inc. and Acon Biotech (Hangzhou) Co., Ltd	On Call A1c	Boronate affinity	Aug '17	gHb6080003	-	-	-	Zhongshan Hospital ASRL#2
Siemens Healthcare Diagnostics Inc.	A1c_3 on Atellica CH Analyzer	Immuno- assay	Aug '17	170116, 170116, 170116	6JD028	0, 2.62, 3.69, 4.83, 6.98, 11.13 µmol/L A1c; 11.91 g/dL Hb	-	Univ. of Missouri. SRL #9

† Method is not available in the US

@ Method is not currently available