

**List of NGSP Certified Methods**  
**(updated 9/17, 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
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 µmol/L HbA1c; 68.29 µmol/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 µmol/L HbA1c; 68.29 µmol/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 µmol/L HbA1c; 68.29 µmol/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 µmol/L HbA1c; 68.29 µmol/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 µmol/L HbA1c; 68.29 µmol/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
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

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EKF Diagnostics GmbH	<sup>1</sup> Boronate Affinity Quo- Test HbA1c	Boronate affinity	Sept '17	020409	-	-	-	European Reference Lab ESRL #11
	<sup>1</sup> Boronate Affinity Quo- Lab HbA1c	Boronate affinity	Sept '17	025380	-	-	-	European Reference Lab ESRL #11
Human Gesellschaft fuer Biochemica und Diagnostica mbH	<sup>1</sup> 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
Ortho Clinical Diagnostics	%A1c on Vitros 5,1 FS	Immuno- assay	Sept '17	5738	3137	0.165, 0.871, 1.755, 4.093 g/dL HbA1c; (-0.638), 3.251, 7.738, 16.960 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 4600	Immuno- assay	Sept '17	5738	3137	0.169, 0.867, 1.736, 4.000 g/dL HbA1c; (-0.638), 3.251, 7.738, 16.960 g/dL Hb	-	Univ. of Missouri. SRL #9
	%A1c on Vitros 5600	Immuno- assay	Sept '17	5738	3137	0.169, 0.867, 1.736, 4.000 g/dL HbA1c; (-0.638), 3.251, 7.738, 16.960 g/dL Hb	-	Univ. of Missouri. SRL #9
Kyowa Medex Co., Ltd.	<sup>1</sup> 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

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Kyowa Medex Co., Ltd.	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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.	<sup>1</sup> 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.	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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
	<sup>1</sup> 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

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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.	Immunoagglutination on Eclipse A1c	Immuno- assay	Sept '17	S70402	-	-	-	ReCCS ASRL#1
Sugentech	Immunoassay on INCLIX	Immuno- assay	Aug '17	HBAT17001	-	-	-	ReCCS ASRL#1
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
Arkray, Inc.	ADAMS HYBRID AH- 8280	Ion- exchange HPLC	July '17	7D1001, 7C1022, 7D1043	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	7C299N	ReCCS ASRL#1

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Arkray, Inc.	ADAMS A1c HA-8190V Fast mode	Ion- exchange HPLC	July '17	7B3011, 7C3021, 7C3641, 7C3052	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	7C008V	ReCCS ASRL#1
	ADAMS A1c HA-8190V Variant mode	Ion- exchange HPLC	July '17	7B3011, 7C3021, 7C3641, 7C3052	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	7C008V	ReCCS ASRL#1
MedTest	Pointe Scientific, HbA1c on Olympus AU400	Immuno- assay	July '17	632601-069	704101-041	5.4%, 8.3%, 11.5%, 15.8%	-	European Reference Lab ESRL#13
	Pointe Scientific, HbA1c on Biolis 24i	Immuno- assay	July '17	632601-069	704101-041	5.0%, 8.0%, 12.0%, 15.5%	-	European Reference Lab ESRL#13
A.Menarini Diagnostics	<sup>1</sup> Auto A1c HA- 8160 ADAMS	Ion- exchange HPLC	July '17	201622, 201605, 201611, 201621	201602	5.7%, 10.5%	4J035Y	European Reference Lab ESRL#10
	<sup>1</sup> Auto A1c HA- 8180V ADAMS	Ion- exchange HPLC	July '17	6H1201, 6F1211, 6H1501, 6H1222	201602	5.7%, 10.5%	6J016Q	European Reference Lab ESRL#10
	<sup>1</sup> Auto A1c HA- 8180T ADAMS	Ion- exchange HPLC	July '17	6H1201, 6F1211, 6J1701, 6H1222	201602	5.7%, 10.5%	5F006P	European Reference Lab ESRL#10
	<sup>1</sup> HPLC Auto A1c on Premier Hb-9210	Boronate affinity	July '17	6145, 6532, 6345, 6595	6601, 6602	5.3%, 12.2%	2274	European Reference Lab ESRL#10
Mindray	Enzymatic on BS200E	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS240	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS240Pro	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS360E	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
Mindray	Enzymatic on BS380	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS400	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1

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Mindray	Enzymatic on BS460	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS480	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS800 & BS800M	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS830	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS2000 & BS2000M	Enzymatic	June '17	045616003	155116003	3.50, 15.6 µmol/L HbA1c; 94.0, 153.0 µmol/L Hb	-	ReCCS ASRL#1
	Ion-exchange HI on H50/H50P	Ion- exchange HPLC	June '17	2016112201, 2016011501, 2016072801	20161219N, 20161219H	5.32%, 11.55%	5I028M	ReCCS ASRL#1
Wellsbio, Inc.	Boronate affinity on careSURE Analyzer 100	Boronate affinity	June '17	BHB16J01, BHB16F10, BHB16M06	395184, 395184	5.6%, 10.8%	-	ReCCS ASRL#1
Sysmex Corporation	<sup>1</sup> L-System HbA1c(E) on BX-3010	Enzymatic	June '17	S7001	S7001	3.76, 15.70 µmol/L HbA1c; 100.1, 161.1 µmol/L Hb	-	ReCCS ASRL#1
Sekisui Diagnostics PEI	HbA1c (Hemolysate) on SK500 % NGSP= HbA1c/Hb*91.4 8+2.9 Hemolysate	Immuno- assay	June '17	801RDN, 827RDN, 801RDN	830RDN	4.8%, 12.3%	-	Univ. of Missouri. SRL #9
	HbA1c (Whole Blood) on SK500 % NGSP= HbA1c/Hb*91.4 8+2.9 Whole blood	Immuno- assay	June '17	801RDN, 827RDN, 801RDN	830RDN	4.8%, 12.3%	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics	DCA Vantage	Immuno- assay	June '17	0722047	-	-	-	Univ. of Missouri. SRL #9
Wuxi Biohermes Bio & Medical Technology Co., Ltd.	Boronate Affinity on G- A1C EZ	Boronate affinity	June '17	AP17010304	-	-	-	Zhongshan Hospital ASRL#2
	Boronate Affinity on A1C EZ 2.0	Boronate affinity	June '17	AP17010304	-	-	-	Zhongshan Hospital ASRL#2

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Getein Biotech, Inc.	Immunofluor- escence Assay on Getein 1600	Immuno- assay	June '17	6BC17024, PBC17019, YBC17026	-	-	-	Zhongshan Hospital ASRL#2
	Immunofluor- escence Assay on Getein 1100	Immuno- assay	June '17	6BC17024, PBC17019, YBC17026	-	-	-	Zhongshan Hospital ASRL#2
	Immunofluor- escence Assay on FIA8600/8000	Immuno- assay	June '17	6BC17024, PBC17019, YBC17026	-	-	-	Zhongshan Hospital ASRL#2
Archem Diagnostics Industry Ltd.	HbA1c 2 <sup>nd</sup> Gen. Reagent Immuno-assay on Dirui CS Series Biochemistry Systems	Immuno- assay	June '17	AR972	013	5.75%, 8.2%, 10.9%, 15.6%	-	European Reference Lab ESRL#13
	TQ HbA1c Gen. 2 hemolysate on Cobas Integra 800 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '17	128023, 141206, 207857	126357	3.041, 1.784, 1.475, 0.535, 0.034, 0.0 g/dL HbA1c; 13.054, 2.611 g/dL Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 2 whole blood on Cobas Integra 800 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '17	128023, 207857	126357	0.02792, 0.01658, 0.01378, 0.00530, 0.00078, 0.0 g/dL HbA1c; 0.13054, 0.02611 g/dL Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 whole blood on cobas c501/502 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '17	161109, 207854	160061	0.138, 0.353, 0.700, 0.976, 1.334, 1.905 mmol/L HbA1c; 1.353, 7.294 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 '17	161310, 188583, 141206	160061	0.148, 0.364, 0.706, 0.973, 1.342, 1.904 mmol/L HbA1c; 1.420, 7.62 mmol/L Hb	-	Univ. of Missouri. SRL #9
Roche Diagnostics GmbH	TQ HbA1c Gen. 3 whole blood on cobas c513 (HbA1c/Hb*91. 5+2.15)	Immuno- assay	June '17	161310, 188583	160061	0.153, 0.364, 0.701, 0.963, 1.325, 1.876 mmol/L HbA1c; 1.42, 7.62 mmol/L Hb	-	Univ. of Missouri. SRL #9
ELITech Clinical Systems SAS	HbA1c (imunoturbidim- etric assay) on Selectra ProS	Immuno- assay	June '17	R170478, R170479, R170477, A170060	R170281, R170282, R170283, R170284	4.9%, 8.9%, 12.3%, 15.9%	-	European Reference Lab ESRL#10
	HbA1c (imunoturbidim- etric assay) on Selectra ProM	Immuno- assay	June '17	R170478, R170479, R170477, A170060	R170281, R170282, R170283, R170284	4.9%, 8.9%, 12.3%, 15.9%	-	European Reference Lab ESRL#10

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Sakae Corporation	<sup>†</sup> Medidas HbA1c on A1c GEAR	Immuno- assay	June '17	461703	STS004	0.0%, 4.7%, 6.9%, 9.8%, 13.2%	-	ReCCS ASRL#1
	<sup>†</sup> Medidas HbA1c on A1c iGEAR	Immuno- assay	June '17	461703	STS004	0.0%, 4.7%, 6.9%, 9.8%, 13.2%	-	ReCCS ASRL#1
Tosoh Corporation	<sup>†</sup> G7 HbA1c Standard Analysis Mode (1.2 min) HLC- 723G7	Ion- exchange HPLC	June '17	K7-102A, K7-201B, 7- 303A, HW- 20B	ZS6002	5.53%, 10.63%	K	Univ. of Missouri. SRL #9
	<sup>†</sup> G7 HbA1c Standard Analysis Mode (1.2 min) HLC- 723G7	Ion- exchange HPLC	June '17	K7-102A, K7-201B, 7- 303A, HW- 20B	JS6002	5.82%, 11.02%	K	Univ. of Missouri. SRL #9
	<sup>†</sup> G8 HbA1c Standard Analysis Mode (1.0 min) HLC- 723G8	Ion- exchange HPLC	June '17	G8-104A, G8-208B, 8- 303B, HW- 20B	ZS6002	5.53%, 10.63%	G	Univ. of Missouri. SRL #9
	<sup>†</sup> G8 HbA1c Standard Analysis Mode (1.0 min), HLC- 723G8	Ion- exchange HPLC	June '17	G8-104A, G8-208B, 8- 303B, HW- 20B	JS6002	5.82%, 11.02%	G	Univ. of Missouri. SRL #9
	<sup>†</sup> G9 HbA1c, HLC-723G9	Ion- exchange HPLC	June '17	C9-106B, C9-202B, 9- 301B, HW- 20B	ZS6002	5.53%, 10.63%	C	Univ. of Missouri. SRL #9
	<sup>†</sup> G9 HbA1c, HLC-723G9	Ion- exchange HPLC	June '17	C9-106B, C9-202B, 9- 301B, HW- 20B	JS6002	5.82%, 11.02%	C	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode (1.6 min), HLC-723G8 Ver. 5.24	Ion- exchange HPLC	June '17	H8-101A, H8-201A, H8-301A, HW-20B	ZS6002	5.53%, 10.63%	H	Univ. of Missouri. SRL #9
	G7 HbA1c Variant Analysis Mode (2.2 min), HLC-723G7	Ion- exchange HPLC	June '17	M7-109A, M7-204A, M7-304A, HW-20B	ZS6002	5.53%, 10.63%	M	Univ. of Missouri. SRL #9
	<sup>†</sup> GX HLC-723GX	Ion- exchange HPLC	June '17	AX-107B, AX-207B, AX-307B, HX-07B	ZS6002	5.53%, 10.63%	A	Univ. of Missouri. SRL #9
	<sup>†</sup> GX HLC-723GX	Ion- exchange HPLC	June '17	AX-107B, AX-207B, AX-307B, HX-07B	JS6002	5.82%, 11.02%	A	Univ. of Missouri. SRL #9
	<sup>†</sup> G11, Standard Analysis Mode (0.5 min), HLC- 723G11	Ion- exchange HPLC	June '17	C1-101B, C1-201B, 1- 301B, HW- 20B	ZS6002	5.53%, 10.63%	C	Univ. of Missouri. SRL #9
	<sup>†</sup> G11, Standard Analysis Mode (0.5 min), HLC- 723G11	Ion- exchange HPLC	June '17	C1-101B, C1-201B, 1- 301B, HW- 20B	JS6002	5.82%, 11.02%	C	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
Tosoh Corporation	<sup>1</sup> G11, Variant Analysis Mode (1.0 min), HLC-723G11	Ion-exchange HPLC	June '17	B1-101B, B1-201B, B1-301B, HW-20B	ZS6002	5.53%, 10.63%	B	Univ. of Missouri. SRL #9
	G8 HbA1c Variant Analysis Mode (1.6 min), HLC-723G8	Ion-exchange HPLC	June '17	H8-101A, H8-201A, H8-301A, HW-20B	ZS6002	5.53%, 10.63%	H	Univ. of Missouri. SRL #9
Abbott Diagnostics	HbA1c (Whole Blood) on Architect c8000 %NGSP=HbA1c/Hb*91.48+2.152	Enzymatic	May '17	50279UQ12, 50279UQ12, 50279UQ12	49368UQ05, 49368UQ05	5.2%, 12.1% 3.38, 17.37 μmol/L HbA1c; 101.7, 159.7 μmol/L THb	-	Univ. of Missouri. SRL #9
Nihon Kohden Corporation	Celltac Chemi HbA1c on CHM-4100	Immuno-assay	May '17	86512	CEN005	0.0%, 4.4%, 6.8%, 9.5%, 12.8%	-	ReCCS ASRL#1
Siemens Healthcare Diagnostics Inc.	Dimension Flex Hb1c on Xpand	Immuno-assay	May '17	GC7249	GC7249	0.17, 0.51, 1.02, 1.74, 2.31 g/dL HbA1c; 12.24, 11.92 g/dL THb	-	Univ. of Missouri. SRL #9
	Dimension Vista Flex HbA1c on Vista 500	Immuno-assay	May '17	17017BA	7AD001	0.17, 0.55, 0.98, 1.62, 2.15 g/dL HbA1c; 13.85, 13.46 g/dL THb	-	Univ. of Missouri. SRL #9
Siemens Healthcare Diagnostics	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia XPT	Enzymatic	Apr '17	030, 030, 030, 030	030, 030	3.21, 16.56 μmol/L A1c; 99.5, 154 μmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 2400	Enzymatic	Apr '17	030, 030, 030, 030	030, 030	3.21, 16.56 μmol/L A1c; 99.5, 154 μmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c EM) – Manual Pretreatment on Advia 1800	Enzymatic	Apr '17	030, 030, 030, 030	030, 030	3.21, 16.56 μmol/L A1c; 99.5, 154 μmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia XPT	Enzymatic	Apr '17	030, 030, 030, 030	030, 030	3.21, 16.56 μmol/L A1c; 99.5, 154 μmol/L tHb	-	Univ. of Missouri. SRL #9
	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 2400	Enzymatic	Apr '17	030, 030, 030, 030	030, 030	3.21, 16.56 μmol/L A1c; 99.5, 154 μmol/L tHb	-	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 Healthcare Diagnostics	Enzymatic Hemoglobin A1c (A1c E) – Automated Pretreatment on Advia 1800	Enzymatic	Apr '17	030, 030, 030, 030	030, 030	3.21, 16.56 µmol/L A1c; 99.5, 154 µmol/L tHb	-	Univ. of Missouri. SRL #9
	Hemoglobin A1c 3 (A1c_3)- Automated Pretreatment on Advia 1800	Immuno- assay	Apr '17	320, 320, 320, 320	6JD028	2.62, 3.69, 4.83, 6.98, 11.13 µmol/L A1c_3; 11.91 g/dL tHb	-	Univ. of Missouri. SRL #9
PTS Diagnostics	A1CNow+, A1CNow Selfcheck	Immuno- assay	Apr '17	1610623	-	-	-	Univ. of Missouri. SRL #9
Nova Biomedical	Allegro, Immunoassay	Immuno- assay	Apr '17	16348079	-	-	-	Univ. of Missouri. SRL #9
Boditech Med Inc.	Immuno-assay on AFIAS-1	Immuno- assay	Apr '17	AAMXA21 F	609102	5.3%, 7.7%, 10.2%, 12.7%	-	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 '17	02056/01, 08045/01, 12035/01	06115/01, 09115/01	36.8, 83.8 mmol/mol	-	European Reference Lab ESRL#10
	Minicap HbA1c %NGSP=0.0914 8 x [IFCC] (mmol/mol) + 2.152	Capillary Electro- phoresis	Apr '17	02056/01, 08045/01, 11055/01	06115/01, 09115/01	36.8, 83.8 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 '17	21116/01, 08116/01, 22116/01	05046/01, 06046/01	36.8, 86.8 mmol/mol	-	European Reference Lab ESRL#10
Wiener Laboratorios S.A.I.C.	<sup>1</sup> HbA1c v.2 Turbitest AA on CMD 800 X1 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '17	210410, 210410, 210410, 201720	201450	2.707 g/dL HbA1c; 13.50 g/dL Hb	-	Univ. of Missouri. SRL #9
	<sup>1</sup> HbA1c v.2 Turbitest AA on CM 250 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '17	210410, 210410, 210410, 201720	201450	2.707 g/dL HbA1c; 13.50 g/dL Hb	-	Univ. of Missouri. SRL #9
	<sup>1</sup> HbA1c v.2 Turbitest AA on CB 350i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '17	210410, 210410, 210410, 201720	201450	2.707 g/dL HbA1c; 13.50 g/dL Hb	-	Univ. of Missouri. SRL #9
	<sup>1</sup> HbA1c v2 Turbitest AA on CT600i 91.5*HbA1c/Hb + 2.15	Immuno- assay	Apr '17	210410, 210410, 210410, 201720	201450	2.707 g/dL HbA1c; 13.50 g/dL Hb	-	Univ. of Missouri. SRL #9
Fujirebio Inc.	<sup>1</sup> Rapidia Auto HbA1c-L on BiOLis24i Premium	Immuno- assay	Apr '17	QF61003, RF61003, SF61203	VF61205	0.0%, 4.3%, 6.8%, 9.6%, 13%	-	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
Fujirebio Inc.	<sup>†</sup> Rapidia Auto HbA1c-L on JCA-BM9130	Immuno- assay	Apr '17	QF61003, RF61003, SF61203	VF61205	0.0%, 4.3%, 6.8%, 9.6%, 13%	-	ReCCS ASRL#1
	<sup>†</sup> AU-Synchron Reagent HbA1c on AU680	Immuno- assay	Apr '17	F9A011, F9A012, H2A007, F9A013	H1A010	0.0%, 4.3%, 6.8%, 9.6%, 13%	-	ReCCS ASRL#1
	<sup>†</sup> Rapidia Auto HbA1c-L on AU680	Immuno- assay	Apr '17	QF61003, RF61003, SF61203	VF61205	0.0%, 4.3%, 6.8%, 9.6%, 13%	-	ReCCS ASRL#1
	<sup>†</sup> Rapidia Auto HbA1c-L on Hitachi 7170s	Immuno- assay	Apr '17	QF61003, RF61003, SF61203	VF61205	0.0%, 4.3%, 6.8%, 9.6%, 13%	-	ReCCS ASRL#1
	<sup>†</sup> Rapidia Auto HbA1c-L on TBA-120FR	Immuno- assay	Apr '17	QF61003, RF61003, SF61203	VF61205	0.0%, 4.3%, 6.8%, 9.6%, 13%	-	ReCCS ASRL#1
Alere Technologies AS	Afinion HbA1c / Afinion AS100 Analyzer	Boronate affinity	Apr '17	10176087	-	-	-	European Reference Lab ESRL #11
	Afinion HbA1c Dx / Afinion AS100 Analyzer	Boronate affinity	Apr '17	10176087	-	-	-	European Reference Lab ESRL #11
	NycoCard HbA1c on NycoCard Reader II	Boronate affinity	Apr '17	10184905, 10185421, 10185014; 10186031, 10186214, 10186498; 10186033, 10186395, 10186498	-	-	-	European Reference Lab ESRL #11
Arkray, Inc.	<sup>†</sup> ADAMS A1c HA-8160 VP mode	Ion- exchange HPLC	Apr '17	16041531, 16030412, 16041933, 16120214	S5002, S6001	5.3%, 10.4%; 5.3%, 10.6%	6D001Y	ReCCS ASRL#1
	<sup>†</sup> ADAMS A1c HA-8160 TP mode	Ion- exchange HPLC	Apr '17	16041531, 16030412, 17012734, 16120214	S5002, S6001	5.3%, 10.4%; 5.3%, 10.6%	6D001W	ReCCS ASRL#1
	<sup>†</sup> ADAMS A1c HA-8160 (Ver.1)	Ion- exchange HPLC	Apr '17	16121611, 16030412, 16030413, 16120214	S5002, S6001	5.3%, 10.4%; 5.3%, 10.6%	6L001X	ReCCS ASRL#1
	<sup>†</sup> ADAMS A1c HA-8160 (Ver.4)	Ion- exchange HPLC	Apr '17	16060857, 16091658, 16062259, 16092655	S5002, S6001	5.3%, 10.4%; 5.3%, 10.5%	6I051F	ReCCS ASRL#1
	<sup>†</sup> ADAMS A1c HA-8170	Ion- exchange HPLC	Apr '17	16060857, 16091658, 16062259, 16092655	S5002, S6001	5.3%, 10.4%; 5.3%, 10.5%	6I151G	ReCCS ASRL#1
	<sup>†</sup> ADAMS A1c HA-8180	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	7B051N	ReCCS ASRL#1
	<sup>†</sup> ADAMS A1c HA-8180V Variant mode	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6J1402, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	7B001U	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-8180V Fast mode	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6J1402, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	7B001U	ReCCS ASRL#1
	† ADAMS A1c HA-8180T	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 7B1601, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6K025L	ReCCS ASRL#1
	† ADAMS HYBRID AH- 8290	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6D101N	ReCCS ASRL#1
	† ADAMS A1c HA-8181	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6K604N	ReCCS ASRL#1
	† CinQ HbA1c on JCA- BM6010 HbA1c%(NGSP )=0.0915*HbA1 c/Hb*1000(IFC C)+2.15	Enzymatic	Apr '17	MFF09, MFG08	1601	2.80, 7.17 µmol/L HbA1c; 97.8 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 '17	MFF09, MFG08	1601	2.80, 7.17 µmol/L HbA1c; 97.8 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 '17	MFF09, MFG08	1601	2.80, 7.17 µmol/L HbA1c; 97.8 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 '17	MFF09, MFG08	1601	2.80, 7.17 µmol/L HbA1c; 97.8 µmol/L Hb	-	ReCCS ASRL#1
	† ADAMS A1c Lite HA-8380	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6D101N	ReCCS ASRL#1
	† ADAMS A1c Lite HA-8380V Fast mode	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6J1402, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6D151U	ReCCS ASRL#1
	† ADAMS A1c Lite HA-8380V Variant mode	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6J1402, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6D051U	ReCCS ASRL#1
	† ADAMS A1c HA-8182	Ion- exchange HPLC	Apr '17	6K1013, 6K1021, 6I1051	S5002, S6001	5.3%, 10.5%; 5.4%, 10.6%	6K246N	ReCCS ASRL#1
Beckman Coulter Ireland Inc.	HbA1c B00389 Manual Application DxC 700 AU	Immuno- assay	Mar '17	0026, M511713	0026, 0026	0.076, 0.547, 0.288, 1.037, 1.572 mmol/L HbA1c; 81.10 mmol/L Hb	-	European Reference Lab ESRL #13

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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 Greencare-A1c	Boronate affinity	Mar '17	HCD16G11 001	-	-	-	Univ. of Missouri. SRL #9
SD Biosensor, Inc.	SD MultiCare System	Immuno- assay	Mar '17	MS1016008	-	-	-	ReCCS ASRL#1
Trinity Biotech	Boronate Affinity HPLC on PDQ	Boronate affinity HPLC	Mar '17	7097, 7082, 7017, 6491	6861, 6862	5.9%, 10.4%	6846	Univ. of Missouri. SRL #3
	Boronate Affinity HPLC on <i>ultra</i> <sup>2</sup>	Boronate affinity HPLC	Mar '17	7097, 7082, 6491, 6854	6861, 6862	6.1%, 10.6%	6846	Univ. of Missouri. SRL #3
	Boronate Affinity HPLC on Premier Hb9210	Boronate affinity HPLC	Mar '17	7086, 7082, 6854, 6491	6861, 6862	5.9%, 10.4%	6622	Univ. of Missouri. SRL #3
Wako Pure Chemical Industries, Ltd.	<sup>†</sup> Autokit HbA1c on Hitachi 7170S	Immuno- assay	Mar '17	YA006, EH067	YA006	0.50, 0.91, 1.68, 2.39 g/dL HbA1c; 13.1 g/dL Hb	-	ReCCS ASRL#1
Sekisui Medical Co., Ltd.	<sup>†</sup> L type Norudia N HbA1c on Hitachi LST008	Enzymatic	Mar '17	812RJN, 812RJN, 811RJN	810RHN	3.49, 16.60 μmol/L HbA1c; 100.6, 147.0 μmol/L Hb	-	ReCCS ASRL#1
	<sup>†</sup> L type Norudia N HbA1c on Hitachi LST006	Enzymatic	Mar '17	812RJN, 812RJN, 811RJN	810RHN	3.49, 16.60 μmol/L HbA1c; 100.6, 147.0 μmol/L Hb	-	ReCCS ASRL#1
	<sup>†</sup> Norudia N HbA1c on Hitachi 7170S	Enzymatic	Mar '17	861RHN, 862RHN, 853RJM	021RIN	3.43, 16.96 μmol/L HbA1c; 103.7, 158.4 μmol/L Hb	-	ReCCS ASRL#1
	<sup>†</sup> Norudia N HbA1c on EV800	Enzymatic	Mar '17	861RHN, 862RHN, 853RJM	021RIN	3.43, 16.96 μmol/L HbA1c; 103.7, 158.4 μmol/L Hb	-	ReCCS ASRL#1
	<sup>†</sup> Norudia N HbA1c on TBA- 120FR	Enzymatic	Mar '17	861RHN, 862RHN, 853RJM	021RIN	3.43, 16.96 μmol/L HbA1c; 103.7, 158.4 μmol/L Hb	-	ReCCS ASRL#1
	<sup>†</sup> Norudia N HbA1c on JCA- BM9130	Enzymatic	Mar '17	861RHN, 862RHN, 853RJM	021RIN	3.43, 16.96 μmol/L HbA1c; 103.7, 158.4 μmol/L Hb	-	ReCCS ASRL#1
	<sup>†</sup> Adams A1c mini	Ion- exchange HPLC	Mar '17	1605240011	1611070010	5.40%, 11.45%	-	ReCCS ASRL#1
	<sup>†</sup> RC20	Ion- exchange HPLC	Mar '17	1605240011	1611070010	5.40%, 11.45%	-	ReCCS ASRL#1
	<sup>†</sup> HbA1c Auto TBA on TBA- 120FR	Enzymatic	Mar '17	811RHN, 811RHN, 810RHN	907RHN	3.44, 17.07 μmol/L HbA1c; 98.2, 159.6 μmol/L Hb	-	ReCCS ASRL#1

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Kyowa Medex Co., Ltd.	<sup>†</sup> Determiner HbA1c on DM- JACK	Immuno- assay	Mar '17	372AFH, 372AFJ	511AFK	0.0%, 4.9%, 9.0%, 13.3%, 15.6%	-	ReCCS ASRL#1
	<sup>†</sup> Determiner HbA1c on JCA- BM9130	Immuno- assay	Mar '17	394AFH, 394AFJ	511AFK	0.0%, 4.9%, 9.0%, 13.3%, 15.8%	-	ReCCS ASRL#1
	<sup>†</sup> Determiner L HbA1c on DM- JACK	Immuno- assay	Mar '17	142AFI, 142AFI	314AFI	0.0%, 4.6%, 6.8%, 9.8%, 13.4%	-	ReCCS ASRL#1
	<sup>†</sup> Determiner L HbA1c on JCA- BM9130	Immuno- assay	Mar '17	142AFI, 142AFI	314AFI	0.0%, 4.5%, 6.8%, 9.8%, 13.3%	-	ReCCS ASRL#1
	<sup>†</sup> Determiner L HbA1c on Hitachi 7180	Immuno- assay	Mar '17	142AFI, 142AFI	314AFI	0.0%, 4.5%, 6.8%, 9.8%, 13.3%	-	ReCCS ASRL#1
	<sup>†</sup> Determiner L HbA1c on TBA- 120FR	Immuno- assay	Mar '17	142AFI, 142AFI	314AFI	0.0%, 4.5%, 6.8%, 9.8%, 13.3%	-	ReCCS ASRL#1
Axis-Shield	Architect HbA1c, Architect i	Immuno- assay	Feb '17	10542UP00	802901281; 802900680- 685	4.0%, 5.5%, 7.5%, 9.0%, 12.0%, 14.5%	-	European Reference Lab ESRL #12
Medica Corporation	HbA1c Latex Immunoassay on EasyRA	Immuno- assay	Feb '17	16068, 16252	16006	4.77%, 8.39%, 12.5%, 17.2%	-	Univ. of Missouri. SRL #9
Shanghai Huizhong Medical Science and Technology Co. Ltd (China)	MQ-2000PT HPLC	Ion- exchange HPLC	Feb '17	PTHbA1c16 0613J, PTHbA1c16 0613J, PTHbA1c16 0613J	20160902	5.36%, 10.94%	PTHbA1c16 0613J	Univ. of Missouri. SRL #9
	MQ-6000 HPLC	Ion- exchange HPLC	Feb '17	20160405C, 20160405C, 20160405C	160802	5.34%, 10.70%	6K20160405 C	Univ. of Missouri. SRL #9
Human Gesellschaft für Biochemica und Diagnostica mbH	HumaNex A1c	Ion- exchange HPLC	Feb '17	161214, 161214, 161214	7050	5.39%, 11.07%	161214	Univ. of Missouri. SRL #9
Green Cross Medis Corp.	Boronate Affinity on Cera-Stat 4000 (Merilyzer Merichack Analyzer)	Boronate Affinity	Feb '17	H06F1501, H06F1502, HC433SMO EW	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity on Cera-Stat 2000 (QDx A1c Analyzer)	Boronate Affinity	Feb '17	H06F1501, H06F1502, HM233SMO EW	-	-	-	Univ. of Missouri. SRL #9
Archem Diagnostic Industry Ltd.	HbA1c Direct method on Architect c	Immuno- assay	Jan '17	065	010	5.9%, 9.2%, 11.9%, 15.8%	-	European Reference Lab ESRL #9
Horiba Medical	HbA1c WB Hemolysate – Pentra C200 ( $Y=(0.34*X)+2.26$ )	Immuno- assay	Jan '17	1605001	1508001	0.00, 1.60, 2.90, 4.20, 7.00, 10.80 µmol/L HbA1c; 68.29 µmol/L Hb	-	European Reference Lab ESRL #10

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Horiba Medical	HbA1c WB Whole Blood – ABX Pentra 400 ( $Y=(0.42*X)+2.1$ )	Immuno- assay	Jan '17	1605001	1508001	0.00, 1.60, 2.90, 4.20, 7.00, 10.80 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L}$ Hb	-	European Reference Lab ESRL #10
	HbA1c WB – YUMIZEN C1200 ( $Y=(91.5*X)+2.15$ )	Immuno- assay	Jan '17	22232/623, 22600	22338	0.395, 1.04 g/dL HbA1c; 5.79, 14.5 g/dL Hb	-	European Reference Lab ESRL #10
Shenzhen Lifotronic Technology Co., Ltd.	GH-900 Ion- exchange HPLC	Ion- exchange HPLC	Jan '17	821637	821637	5.4%, 9.6%	GH1600653	ReCCS ASRL#1
	H8 Ion- exchange HPLC	Ion- exchange HPLC	Jan '17	H9V16012	H9V16012	5.2%, 9.3%	0116800820	ReCCS ASRL#1
	H9 Ion- exchange HPLC	Ion- exchange HPLC	Jan '17	H9V16010	H9V16010	5.0%, 9.1%	0116800753	ReCCS ASRL#1
Caretium Medical Instruments Co., Limited	Cation-exchange chromatography on HbA1c Analyzer KH- 101	Ion- exchange HPLC	Jan '17	20160805	161173A, 161175A	5.60%, 11.20%	160810S	ReCCS ASRL#1
Erba Lachema	ERBA Hb-Vario	Ion- exchange HPLC	Jan '17	1608106	160396A, 160397A	5.56%, 11.90%	1608106-CM	Univ. of Missouri. SRL #9
Boditech Med Inc.	Immuno-assay on ichroma Reader	Immuno- assay	Jan '17	AAMKB27	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
	Immuno-assay on ichroma II	Immuno- assay	Jan '17	AAMKB27	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
	Immuno-assay on AFIAS-50	Immuno- assay	Jan '17	AAMKB27	609102	5.6%, 8.5%, 11.5%, 14.0%	-	ReCCS ASRL#1
TaiDoc Technology Corp.	<sup>†</sup> Immunoassay on TD-4611	Immuno- assay	Jan '17	161107	502101-224	5.1%, 7.9%, 11.3%, 15.2%	-	European Reference Lab ESRL#9
Thermo Fisher Scientific Oy	<sup>†</sup> HbA1c for Konelab, ref 981947, 981948, 91.5*HbA1c/Hb +2.15	Immuno- assay	Jan '17	M879, MB45	981863	1.489 mmol/L HbA1c; 8.936 mmol/L Hb	-	European Reference Lab ESRL#9
	<sup>†</sup> HbA1c for Indiko, ref 981947, 981948 on Indiko Plus, 91.5*HbA1c/Hb +2.15	Immuno- assay	Jan '17	M879, MB45	981863	1.489 mmol/L HbA1c; 8.936 mmol/L Hb	-	European Reference Lab ESRL#9
Bio-Rad Laboratories	<sup>†</sup> VARIANT II Dual (A1c)	Ion- exchange HPLC	Jan '17	64056567, 64056568, 64073878	64066958, 64066962	5.2%, 10.2%	RB20900	Univ. of Minn SRL #10
	<sup>†</sup> VARIANT II Dual (A2/F/A1c)	Ion- exchange HPLC	Jan '17	64056567, 64056568, 64073878	64066813, 64066960	5.3%, 10.1%	RB20900	Univ. of Minn SRL #10
	D-10 Dual A2/F/A1c	Ion- exchange HPLC	Jan '17	AA50459, AA50460, AA50089	AA60273, AA60274	5.5%, 10.1%	D40035P	Univ. of Minn SRL #10

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Bio-Rad Laboratories	D-10 HbA1c	Ion- exchange HPLC	Jan '17	AA60091, AA60092, AA60326	AA60350, AA60351	5.2%, 10.3%	A40035AR	Univ. of Minn SRL #10
	D-100 HbA1c	Ion- exchange HPLC	Jan '17	64074360, 64067596, 64067598	64066926, 64066926	5.94%, 9.20%	31037AR	Univ. of Minn SRL #10
	Variant II HbA1c NU	Ion- exchange HPLC	Jan '17	64048499, 64048501, 64056475	64043319, 64043321	5.4%, 10.2%	NU31453R	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c	Ion- exchange HPLC	Jan '17	64067600, 64067601, 64031551	64075289, 64075290	5.1%, 10.3%	S31342F	Univ. of Minn SRL #10
	VARIANT II TURBO Link HbA1c	Ion- exchange HPLC	Jan '17	64057911, 64066440, 64057793	64058582, 64058586	5.3%, 10.4%	LLV31342L	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0 (screen and diagnosis)	Ion- exchange HPLC	Jan '17	64073593, 64073589, 64066447	64066285, 64066287	5.2%, 10.2%	50285Q	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0	Ion- exchange HPLC	Jan '17	64068787, 64066449, 64066447	64066285, 64066287	5.2%, 10.2%	50285Q	Univ. of Minn SRL #10
i-SENS	Enzymatic on AICare	Enzymatic	Dec '16	DCHcAB	-	-	-	ReCCS ASRL#1
Zivak Teknoloji Sanayi ve Ticaret Limited Sirketi	HB-100 Full Automated HbA1c/Variant HPLC Analyzer method	Ion- exchange HPLC	Dec '16	HB1605R1, HB1605MA, HB1605MB	HB1609S1, HB1609S2	4.75%, 13.24%	HB1611C1	European Reference Lab ESRL#10
UMA Co., Ltd.	Measure HbA1c II on Hitachi 7180	Immuno- assay	Dec '16	238AFJ, 166AFE	119AFJ	0%, 5.6%, 7.8%, 12.3%, 15.5%	-	ReCCS ASRL#1
LITE-ON Technology Corp. H.S.P.B.	Immunoassay on Skyla Hi analyzer	Immuno- assay	Dec '16	A1ZH16082	-	-	-	ReCCS ASRL#1
J. Mitra & Co. Pvt Limited	Fluorescence immunoassay on i-Quant Analyzer	Immuno- assay	Dec '16	HBQ020816	-	-	-	European Reference Lab ESRL#10
Goldsite Diagnostics Inc.	Omlipo	Immuno- assay	Dec '16	0371170701	ALO1328	5.5%, 7.9%, 11.2%, 15.2%	-	ReCCS ASRL#1
	Nephstar	Immuno- assay	Dec '16	0171160708	ALO1328	5.5%, 7.9%, 11.2%, 15.2%	-	ReCCS ASRL#1
	Nephstar-Plus	Immuno- assay	Dec '16	0271160513	ALO1328	5.5%, 7.9%, 11.2%, 15.2%	-	ReCCS ASRL#1
DiaSys Diagnostic Systems GmbH	HbA1c net FS, Reference No. 1 3348 00, respons910	Enzymatic	Dec '16	22597, 22233	22883	0.363, 1.05 g/dL HbA1c; 5.11, 14.3 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, Biomajesty 6010C	Enzymatic	Dec '16	22597, 22233	22338	0.395, 1.040g/dL HbA1c; 5.79, 14.50 g/dL Hb	-	European Reference Lab ESRL#10
	oneHbA1c FS, Reference No. 1 3329 00, InnovaStar	Immuno- assay	Dec '16	89, 21688	23042, 23043, 23044, 23045	4.99%, 6.72%, 10.4%, 12.8%	-	European Reference Lab ESRL#10



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DiaSys Diagnostic Systems GmbH	oneHbA1c FS, Reference No. 1 3329 00, 3 component version, Hitachi 917	Immuno- assay	Dec '16	22371, 22372, 22373, 21688	21804, 21805, 21806, 21807	4.77%, 8.39%, 12.5%, 17.2%	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, Hitachi 917	Immuno- assay	Dec '16	22597, 22233	22338	0.395, 1.150g/dL HbA1c; 5.09, 14.80 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, Furuno Bx3010	Immuno- assay	Dec '16	22597, 22233	22338	0.395, 1.150g/dL HbA1c; 5.09, 14.80 g/dL Hb	-	European Reference Lab ESRL#10
Trinity Biotech	Tri-stat HbA1c Assay	Boronate Affinity	Dec '16	6352 (0Y)	-	-	-	Univ. of Missouri. SRL #3
Siemens Healthcare Diagnostics, Inc.	Dimension Flex HB1C on RxL	Immuno- assay	Dec '16	GC7249	GC7249	0.17, 0.51, 1.02, 1.74, 2.31 g/dL HbA1c; 12.24, 11.92 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Flex HB1C on ExL	Immuno- assay	Dec '16	GC7249	GC7249	0.17, 0.51, 1.02, 1.74, 2.31 g/dL HbA1c; 12.24, 11.92 g/dL Hb	-	Univ. of Missouri. SRL #9
Roche Diagnostics International Ltd	Cobas HbA1c Test on cobas b 101	Immuno- assay	Dec '16	631132-01	-	-	-	Univ. of Missouri. SRL #9
Roche Diagnostics	TQ HbA1c Gen. 2 Hemolysate on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	128050, 148011	185997	2.991, 1.756, 1.453, 0.530, 0.036, 0 g/dL HbA1c; 12.069, 7.227, 6.035, 2.414, 0.483, 0 g/dL Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Whole Blood on Cobas c111 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125243, 147975	126358	0.01549, 0.01032, 0.00737, 0.00516, 0.00258, 0.00103 mmol/L HbA1c; 0.07811, 0.05207, 0.03720, 0.02604, 0.01302, 0.00521 mmol/L 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
Roche Diagnostics	TQ HbA1c Gen. 2 Whole Blood on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	128050, 148011	185997	0.02916, 0.01712, 0.01416, 0.00516, 0.00036, 0 g/dL HbA1c; 0.12069, 0.07227, 0.06035, 0.02414, 0.00483, 0 g/dL 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 '16	125243, 148011	126358	1.667, 1.112, 0.794, 0.556, 0.278, 0.111 mmol/L HbA1c; 7.811, 5.207, 3.720, 2.604, 1.302, 0.521 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Whole Blood on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125243, 148011	126358	0.01649, 0.01100, 0.00785, 0.00550, 0.00275, 0.00110 mmol/L HbA1c; 0.07811, 0.05207, 0.03720, 0.02604, 0.01302, 0.00521 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 2 Whole Blood on cobas c111 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125576, 147975	183640	0.02607, 0.01575, 0.01321, 0.00549, 0.00137, 0.00 g/dL HbA1c; 0.12052, 0.07217, 0.06026, 0.02386, 0.00482, 0.00 g/dL Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Whole Blood on cobas c311 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125243, 159663	185997	0.143, 0.334, 0.642, 0.887, 1.205, 1.711 mmol/L HbA1c; 1.350, 7.279 mmol/L 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
Roche Diagnostics	TQ HbA1c Gen. 3 Whole Blood on Cobas c111 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125243, 147975	126358	0.01549, 0.01032, 0.00737, 0.00516, 0.00258, 0.00103 mmol/L HbA1c; 0.07811, 0.05207, 0.03720, 0.02604, 0.01302, 0.00521 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 2 Whole Blood on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	128050, 148011	185997	0.02916, 0.01712, 0.01416, 0.00516, 0.00036, 0 g/dL HbA1c; 0.12069, 0.07227, 0.06035, 0.02414, 0.00483, 0 g/dL 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 '16	125243, 148011	126358	1.667, 1.112, 0.794, 0.556, 0.278, 0.111 mmol/L HbA1c; 7.811, 5.207, 3.720, 2.604, 1.302, 0.521 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 3 Whole Blood on Cobas Integra 400 Plus HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125243, 148011	126358	0.01649, 0.01100, 0.00785, 0.00550, 0.00275, 0.00110 mmol/L HbA1c; 0.07811, 0.05207, 0.03720, 0.02604, 0.01302, 0.00521 mmol/L Hb	-	Univ. of Missouri. SRL #9
	TQ HbA1c Gen. 2 Whole Blood on cobas c111 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125576, 147975	183640	0.02607, 0.01575, 0.01321, 0.00549, 0.00137, 0.00 g/dL HbA1c; 0.12052, 0.07217, 0.06026, 0.02386, 0.00482, 0.00 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
Roche Diagnostics	TQ HbA1c Gen. 3 Whole Blood on cobas c311 HbA1c/Hb*91.5 +2.15	Immuno- assay	Dec '16	125243, 159663	185997	0.143, 0.334, 0.642, 0.887, 1.205, 1.711 mmol/L HbA1c; 1.350, 7.279 mmol/L Hb	-	Univ. of Missouri. SRL #9
Infopia Co, Ltd	Frontier and HemoCue HbA1c 501	Boronate Affinity	Nov '16	F16F14F21 DL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '16	C16F16F23 DL	-	-	-	Univ. of Missouri. SRL #9
Horiba Medical	HbA1c WB Hemolysate – Pentra C400 ( $Y=(0.43*X)+2.06$ )	Immuno- assay	Nov '16	1605001	1508001	0.00, 1.60, 2.90, 4.20, 7.00, 10.80 $\mu\text{mol/L}$ 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	Nov '16	1605001	1508001	0.00, 1.60, 2.90, 4.20, 7.00, 10.80 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L}$ Hb	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – Pentra C400 ( $Y=(0.42*X)+2.25$ )	Immuno- assay	Nov '16	1605001	1508001	0.00, 1.60, 2.90, 4.20, 7.00, 10.80 $\mu\text{mol/L}$ HbA1c; 68.29 $\mu\text{mol/L}$ Hb	-	European Reference Lab ESRL #10
Shenzhen Labnovation Technologies, Inc.	HPLC on Automated HbA1c Analyzer (LD- 500)	Ion- exchange HPLC	Nov '16	20160328Y, 20160328Y, 20160328Y	20160224	5.28%, 10.56%	20160328Y	ReCCS ASRL#1
	HPLC on Automated HbA1c Analyzer (LD- 600)	Ion- exchange HPLC	Nov '16	20160703, 20160703, 20160703	20160706	5.30%, 9.50%	20160703	ReCCS ASRL#1
Home Access Health Corp	Red blood cell- serum strip- based cassettes on Beckman AU680	Immuno- assay	Oct '16	M504400, 0024	0024	0.153, 0.476, 0.893, 1.721, 2.596 g/dL HbA1c; 14.5 g/dL THb	-	Univ. of Missouri. SRL #9
Fujikura Kasei Co., Ltd.	HbA1c-F on Hitachi 7180	Immuno- assay	Oct '16	W16H231C	W16C311C	5.1%, 8.7%, 12.3%, 16.0%	-	ReCCS ASRL#1
	HbA1c-FW on Hitachi 7180	Immuno- assay	Oct '16	W16G011W	W16C312W	4.9%, 8.7%, 12.2%, 16.3%	-	ReCCS ASRL#1
Beckman- Coulter Inc.	UniCel DxC Synchron Systems DxC 800	Immuno- assay	Oct '16	M510636, M602502	M602502	0.109, 0.461, 0.877, 1.614, 2.508 g/dL HbA1c; 17.52 g/dL Hb	-	Univ. of Missouri. SRL #9
ROHM Co., Ltd.	Spotchem Banalyst HbA1c on SI-3620	Immuno- assay	Oct '16	1631FT037 O	WC0014	0.0, 24.5, 51.3, 82.3, 118.0 mmol/mol	-	ReCCS ASRL#1
	Banalyst Ace HbA1c on Banalyst Ace	Immuno- assay	Oct '16	1628FT027 O	WC0014	0.0, 24.5, 51.3, 82.3, 118.0 mmol/mol	-	ReCCS ASRL#1

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ROHM Co., Ltd.	B-analyst HbA1c on B- analyst S1	Immuno- assay	Oct '16	1628FT025 O	WC0014	0.0, 24.5, 51.3, 82.3, 118.0 mmol/mol	-	ReCCS ASRL#1
	Spotchem Banalyst HbA1c on SI-3610	Immuno- assay	Oct '16	1631FT037 O	WC0014	0.0, 24.5, 51.3, 82.3, 118.0 mmol/mol	-	ReCCS ASRL#1
Hitachi Chemical Co., Ltd.	Seratestum A1C	Enzymatic	Oct '16	Y6G717	-	-	-	ReCCS ASRL#1

<sup>t</sup> Method is not available in the US

<sup>@</sup> Method is not currently available