

List of NGSP Certified Methods
(updated 2/19, 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
Siemens Healthcare Diagnostics Inc.	Dimension Flex Hb1c on RxL	Immuno- assay	Feb '19	GA9204	GA9204	0.11, 0.55, 1.54, 1.87, 2.27 g/dL HbA1c; 12.41, 12.02 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Flex Hb1c on ExL	Immuno- assay	Feb '19	GA9204	GA9204	0.11, 0.55, 1.54, 1.87, 2.27 g/dL HbA1c; 12.41, 12.02 g/dL Hb	-	Univ. of Missouri. SRL #9
Horiba Medical	HbA1c – Yumizen C1200	Immuno- assay	Feb '19	53376, 53035	53034	3.35, 14.85 µmol/L HbA1c; 98.6, 153.8 µmol/L Hb	-	European Reference Lab ESRL #10
J. Mitra & Co. Pvt Limited	Fluorescence immunoassay on i-Quant Analyser	Immuno- assay	Feb '19	HBQ041018	-	-	-	European Reference Lab ESRL #10
Human Gesellschaft für Biochemica und Diagnostica mbH	HPLC on HumanNex A1c	Ion- exchange HPLC	Feb '19	181217, 181217, 181217	7079	5.39%, 11.36%	181217	Univ. of Missouri. SRL #9
Green Cross Medis Corp.	Boronate Affinity on Cera-Stat 4000 (Merilyzer Merichack Analyzer)	Boronate Affinity	Feb '19	HC4338K151, HC4338K152, HC4338K15W	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity on Cera-Stat 2000 (QDx A1c Analyzer)	Boronate Affinity	Feb '19	HC23338L051, HC23338L052, HC23338L05W	-	-	-	Univ. of Missouri. SRL #9
	Boronate Affinity LabonaCheck A1c HbA1c Analyzer (Model: MH200), A1Card HbA1c Analyzer	Boronate Affinity	Feb '19	HM2368L051 HM2368L052 HM2368L05W	-	-	-	Univ. of Missouri. SRL #9

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UMA Co, Ltd	Measure HbA1c II on Hitachi 7180	Immuno- assay	Feb '19	295AHL, 193AIA	126AIA	0.0%, 5.6%, 7.4%, 11.6%, 15.4%	-	ReCCS ASRL#1
Shanghai Huizhong Medical Science and Technology Co. Ltd (China)	HPLC on MQ- 6000	Ion- exchange HPLC	Feb '19	20180523E, 20180523E, 20180523E, 20180523E	20180919	5.43%, 10.83%	20180523E- 54#	Univ. of Missouri. SRL #9
	HPLC on MQ- 2000PT	Ion- exchange HPLC	Feb '19	PTHbA1c18 0226P, PTHbA1c18 0226P, PTHbA1c18 0226P	20180919	5.40%, 11.18%	PTHbA1c18 0226P-103#	Univ. of Missouri. SRL #9
Nihon Kohden Corporation	Celltac Chemi HbA1c	Immuno- assay	Jan '19	88047, 88048	CEN007	0.0%, 4.4%, 6.9%, 9.7%, 13.1%	-	ReCCS ASRL#1
	Celltac Chemi HbA1c N	Immuno- assay	Jan '19	A10006	CEN007	0.0%, 4.4%, 6.7%, 9.6%, 12.8%	-	ReCCS ASRL#1
i-SENS	Enzymatic on A1Care Analyzer	Enzymatic	Jan '19	DEJBBC	-	-	-	ReCCS ASRL#1
Shenzhen Lifotronic Technology Co., Ltd.	Ion-exchange HPLC on GH- 900 HbA1c Analyzer	Ion- exchange HPLC	Jan '19	821866	2018090801	6.00%, 10.40%	GH18509888	ReCCS ASRL#1
	Ion-exchange HPLC on H8 Hemoglobin Analyzer	Ion- exchange HPLC	Jan '19	H8SZ18053	H8SZ18012	5.30%, 10.20%	102DSZ1870 4522	ReCCS ASRL#1
	Ion-exchange HPLC on H9 Hemoglobin Analyzer	Ion- exchange HPLC	Jan '19	H8SZ18053	H8SZ18012	5.30%, 10.20%	102BSZ1890 5829	ReCCS ASRL#1
	Lateral Flow Immunoassay on FA-160	Immuno- assay	Jan '19	8518008	-	-	-	ReCCS ASRL#1
Fujikura Kasei Co., Ltd.	HbA1c-F on Hitachi 7180	Immuno- assay	Jan '19	W18C051C	W18J261C	5.1%, 8.7%, 12.2%, 15.9%	-	ReCCS ASRL#1
	HbA1c-FW on Hitachi 7180	Immuno- assay	Jan '19	W18I071WE	W18J262W	5.0%, 8.5%, 12.2%, 15.8%	-	ReCCS ASRL#1
Boditech Med Inc.	Immuno-assay on ichroma II	Immuno- assay	Jan '19	AAOYD23	704101	5.5%, 8.5%, 11.0%, 14.0%	-	ReCCS ASRL#1
TaiDoc Technology Corp.	† Immunoassay on TD-4611	Immuno- assay	Jan '19	18I122	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 '19	64205778, 64205779, 64224183	64217848, 64217850	5.4%, 10.2%	NA60425	Univ. of Minn SRL #10
	† VARIANT II Dual (A2/F/A1c)	Ion- exchange HPLC	Jan '19	64205778, 64205779, 64224183	64217852, 64217854	5.5%, 10.2%	NA60425	Univ. of Minn SRL #10
	D-10 Dual A2/F/A1c	Ion- exchange HPLC	Jan '19	AA80280, AA80281, AA80271	AA80294, AA80295	5.3%, 10.1%	D70468C	Univ. of Minn SRL #10
	D-10 HbA1c (12000949)	Ion- exchange HPLC	Jan '19	AA80328, AA80329, AA70200	AA80345, AA80346	5.3%, 10.3%	R70468B	Univ. of Minn SRL #10

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Bio-Rad Laboratories	D-10 HbA1c	Ion- exchange HPLC	Jan '19	AA80328, AA80329, AA80242	AA80345, AA80346	5.3%, 10.3%	A70468J	Univ. of Minn SRL #10
	D-100 HbA1c	Ion- exchange HPLC	Jan '19	64215510, 64215791, 64226409	64238854, 64238854	5.78%, 9.37%	60415AR	Univ. of Minn SRL #10
	VARIANT II HbA1c NU	Ion- exchange HPLC	Jan '19	64172449, 64172450, 64121275	64204836, 64204837	5.4%, 10.3%	NU70415A	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c	Ion- exchange HPLC	Jan '19	64195781, 64195782, 64122819	64217828, 64217829	5.4%, 10.3%	S31342P	Univ. of Minn SRL #10
	VARIANT II TURBO Link HbA1c	Ion- exchange HPLC	Jan '19	64216605, 64221284, 64204718	64195255, 64195256	5.4%, 10.3%	LLV31342V	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0 (12000447)	Ion- exchange HPLC	Jan '19	64218469, 64218472, 64219653	64225265, 64225266	5.5%, 10.2%	70234K	Univ. of Minn SRL #10
	VARIANT II TURBO HbA1c Kit – 2.0	Ion- exchange HPLC	Jan '19	64218469, 64218472, 64219653	64225265, 64225266	5.5%, 10.2%	70234K	Univ. of Minn SRL #10
Trinity Biotech	Tri-stat 1 HbA1c Assay	Boronate Affinity	Jan '19	7332 (1z)	-	-	-	Univ. of Missouri. SRL #11
	Tri-stat 2 HbA1c Assay	Boronate Affinity	Jan '19	8975 (2d)	-	-	-	Univ. of Missouri. SRL #11
Skyla Corporation Hsinchu Science Park Branch	Immunoassay on Skyla Hi Analyzer	Immuno- assay	Jan '19	A1ZH1810R	-	-	-	ReCCS ASRL#1
biosurfit, S.A.	Spinit HbA1c test	Immuno- assay	Jan '19	540101-329 00	-	-	-	European Reference Lab ESRL#13
SD Biosensor, Inc.	Standard A1cCare	Immuno- assay	Dec '18	AC0218056	-	-	-	ReCCS ASRL#1
	Standard F on F200	Immuno- assay	Dec '18	FHB1018010	-	-	-	ReCCS ASRL#1
	Standard F on F2400	Immuno- assay	Dec '18	FHB1018010	-	-	-	ReCCS ASRL#1
	Standard F on F100	Immuno- assay	Dec '18	FHB1018010	-	-	-	ReCCS ASRL#1
DiaSys Diagnostic Systems GmbH	HbA1c net FS, Reference No. 1 3348 00, respons910	Enzymatic	Dec '18	26120, 26123	26305, 26305	0.375, 1.090 g/dL HbA1c; 5.00, 15.0 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, BM6010	Enzymatic	Dec '18	26120, 26123	26305, 26305	0.400, 1.005 g/dL HbA1c; 5.00, 15.0 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, Hitachi 917	Enzymatic	Dec '18	26120, 26123	26305, 26305	0.405, 1.080 g/dL HbA1c; 5.60, 14.2 g/dL Hb	-	European Reference Lab ESRL#10
	HbA1c net FS, Reference No. 1 3348 00, BX3010	Enzymatic	Dec '18	26120, 26123	26305, 26305	0.405, 1.080 g/dL HbA1c; 5.60, 14.2 g/dL Hb	-	European Reference Lab ESRL#10
Roche Diagnostics International Ltd	Cobas HbA1c Test on cobas b 101	Immuno- assay	Dec '18	813041-01	-	-	-	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 '18	242789, 365370	257104	0.01620, 0.01080, 0.00771, 0.00540, 0.00270, 0.00108 mmol/L HbA1c; 0.07617, 0.05078, 0.03627, 0.02539, 0.01270, 0.00508 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 '18	335363, 327117	257104	0.122, 0.313, 0.620, 0.865, 1.182, 1.689 mmol/L HbA1c; 1.412, 7.617 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 '18	335368, 322836	257104	0.01521, 0.01014, 0.00724, 0.00507, 0.00253, 0.00101 mmol/L HbA1c; 0.07617, 0.05078, 0.03657, 0.02539, 0.01270, 0.00508 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 '18	242789, 307647, 365370	257104	1.637, 1.092, 0.780, 0.546, 0.273, 0.109 mmol/L HbA1c; 7.617, 5.078, 3.627, 2.539, 1.270, 0.508 mmol/L Hb	-	Univ. of Missouri. SRL #9
DxGen Corp.	Boronate affinity on Epithod 616 Analyzer, EP616	Boronate Affinity	Dec '18	C18H3001R1, C18H3001W1 C18H3001MC	-	-	-	Univ. of Missouri. SRL #9
Siemens Healthineers	Dimension Vista A1C on Vista 1500	Immuno- assay	Dec '18	18232BB	8HD056	0.10, 0.46, 0.91, 1.55, 2.27 g/dL HbA1c; 12.91, 12.73 g/dL Hb	-	Univ. of Missouri. SRL #9
	Dimension Vista A1C on Vista 500	Immuno- assay	Dec '18	18232BB	8HD056	0.10, 0.46, 0.91, 1.55, 2.27 g/dL HbA1c; 12.91, 12.73 g/dL Hb	-	Univ. of Missouri. SRL #9

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Shenzhen Labnovation Technologies	HPLC on LD-500, LD-510, LD-520	Ion-exchange HPLC	Nov '18	20180625, 20180625, 20180625	20180607, 20180607	5.10%, 10.60%	20180625	ReCCS ASRL#1
	HPLC on LD-600, LD-620	Ion-exchange HPLC	Nov '18	20180517, 20180517, 20180517	20180314, 20180314	6.0%, 11.0%	20180517	ReCCS ASRL#1
Changsha Sinocare Inc.	Boric acid affinity chromatography on PCH-100	Boronate Affinity	Nov '18	8A625	-	-	-	Zhongshan Hospital ASRL#2
Siemens Healthcare	Dimension Hemoglobin A1c (A1C) on Dimension EXL	Immuno-assay	Nov '18	Gb9057	Gb9057	0.15, 0.57, 1.05, 1.79, 2.64 g/dL HbA1c; 12.2, 12.1 g/dl Hb	-	Univ. of Missouri. SRL #9
	Dimension Hemoglobin A1c (A1C) on Dimension RxL	Immuno-assay	Nov '18	Gb9057	Gb9057	0.15, 0.57, 1.05, 1.79, 2.64 g/dL HbA1c; 12.2, 12.1 g/dl Hb	-	Univ. of Missouri. SRL #9
	Dimension Hemoglobin A1c (A1C) on Dimension Xpand	Immuno-assay	Nov '18	Gb9057	Gb9057	0.15, 0.57, 1.05, 1.79, 2.64 g/dL HbA1c; 12.2, 12.1 g/dl Hb	-	Univ. of Missouri. SRL #9
OSANG Healthcare Co., Ltd.	Frontier and HemoCue HbA1c 501	Boronate Affinity	Nov '18	F18H28104EL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '18	A18106114EL	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c Plus	Boronate Affinity	Nov '18	B18G26H14E	-	-	-	Univ. of Missouri. SRL #9
	Clover A1c, Clover A1c Self and Checkart	Boronate Affinity	Nov '18	C18H20H28DL	-	-	-	Univ. of Missouri. SRL #9
Getein Biotech, Inc.	Immunofluorescence assay on Getein 1600	Immuno-assay	Oct '18	PBC18048, PBC18049, PBC18050	-	-	-	Zhongshan Hospital ASRL#2
	Colloidal Gold on FIA8600/8000	Immuno-assay	Oct '18	6BC18063, 6BC18064, 6BC18071	-	-	-	Zhongshan Hospital ASRL#2
Boditech Med Inc.	Immuno-assay on AFIAS-6	Immuno-assay	Oct '18	AAOHA468F	704101	4.9%, 7.3%, 9.5%, 12.0%	-	ReCCS ASRL#1
	Immuno-assay on AFIAS-1	Immuno-assay	Oct '18	AAOHA468F	704101	4.9%, 7.3%, 9.5%, 12.0%	-	ReCCS ASRL#1
Siemens Healthineers	Dimension Vista Flex HbA1c	Immuno-assay	Oct '18	18149BC	8ED029	0.10, 0.53, 0.95, 1.74, 2.17 g/dL HbA1c; 13.69, 13.40 g/dL Hb	-	Univ. of Missouri. SRL #9
Beckman-Coulter Inc.	UniCel DxS Synchron Systems DxS 800	Immuno-assay	Oct '18	M808161	M804188	0.139, 0.445, 0.850, 1.563, 2.280 g/dL HbA1c; 19.72 g/dL Hb	-	Univ. of Missouri. SRL #9
ROHM Co., Ltd.	Spotchem Banalyst HbA1c on SI-3620	Immuno-assay	Oct '18	1831GXN01O	WC0038-2	0.0, 26.2, 50.8, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
	Banalyst Ace HbA1c on Banalyst Ace	Immuno-assay	Oct '18	1831GXN02O	WC0038-2	0.0, 26.2, 50.8, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1

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ROHM Co., Ltd.	B-analyst HbA1c on B- analyst S1	Immuno- assay	Oct '18	1831GXN03O	WC0038-2	0.0, 26.2, 50.8, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
	Spotchem Banalyst HbA1c on SI-3610	Immuno- assay	Oct '18	1831GXN01O	WC0038-2	0.0, 26.2, 50.8, 84.9, 118.0 mmol/mol	-	ReCCS ASRL#1
Hitachi Chemical Co., Ltd.	Seratestum A1C	Enzymatic	Oct '18	Y8G878	-	-	-	ReCCS ASRL#1
MedTest Dx	Pointe Scientific, HbA1c Immunoturbidi metric on Olympus AU400	Immuno- assay	Oct '18	802301-211	704101-016	5.4%, 8.3%, 12.0%, 15.5%	-	European Reference Lab ESRL #13
	Pointe Scientific, HbA1c Immunoturbidi metric on Biolis 24i	Immuno- assay	Oct '18	802301-211	704101-016	5.0%, 8.0%, 11.5%, 15.8%	-	European Reference Lab ESRL #13
Horiba Medical	HbA1c WB Hemolysate – ABX Pentra C200 ($Y=(0.328*X)+$ 2.216)	Immuno- assay	Sept '18	1800601	1805001	0.00, 1.71, 3.34, 4.86, 8.56, 13.12 μ mol/L HbA1c; 68.29 μ mol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – ABX Pentra 400 ($Y=(0.388*X)+$ 2.337)	Immuno- assay	Sept '18	1800601	1805001	0.00, 1.63, 3.30, 4.93, 8.71, 14.41 μ mol/L HbA1c; 68.29 μ mol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Hemolysate – ABX Pentra 400 ($Y=(0.419*X)+$ 1.61)	Immuno- assay	Sept '18	1800601	1805001	0.00, 2.00, 3.44, 4.84, 8.13, 13.10 μ mol/L HbA1c; 68.29 μ mol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Hemolysate – Pentra C400 ($Y=(0.42*X)+2.$ 06)	Immuno- assay	Sept '18	1800601	1805001	0.00, 1.58, 3.10, 4.56, 7.98, 12.68 μ mol/L HbA1c; 68.29 μ mol/L Hb	-	European Reference Lab ESRL #10
	HbA1c WB Whole Blood – Penta C400 ($Y=(0.352*X)+$ 2.644)	Immuno- assay	Sept '18	1800601	1805001	0.00, 1.52, 3.25, 4.91, 8.79, 14.13 μ mol/L HbA1c; 68.29 μ mol/L Hb	-	European Reference Lab ESRL #10
Drawbridge Health	@DBH HbA1c on Beckman Coutler AU480	Immuno- assay	Sept '18	1035, M712027	1035	0.198, 0.435, 0.793, 1.396, 2.251 mmol/L HbA1c; 0, 13.45 mmol/L Hb	-	Univ. of Missouri. SRL #9
EKF Diagnostics GmbH	^t Boronate Affinity Quo- Test HbA1c	Boronate affinity	Sept '18	020469	-	-	-	European Reference Lab ESRL #11

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EKF Diagnostics GmbH	[†] Boronate Affinity Quo- Lab HbA1c	Boronate affinity	Sept '18	25490	-	-	-	European Reference Lab ESRL #11
Human Gesellschaft fuer Biochemica und Diagnostica mbH	[†] HumaMeter HbA1c	Boronate affinity	Sept '18	020496	-	-	-	European Reference Lab ESRL #11
Beckman Coulter Ireland Inc.	HbA1c B00389 Manual Application AU5800	Immuno- assay	Sept '18	1040	1040	0.123, 0.270, 0.492, 0.866, 1.396 mmol/L HbA1c; 8.34 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU2700	Immuno- assay	Sept '18	1040	1040	0.123, 0.270, 0.492, 0.866, 1.396 mmol/L HbA1c; 8.34 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU680	Immuno- assay	Sept '18	1040	1040	0.123, 0.270, 0.492, 0.866, 1.396 mmol/L HbA1c; 8.34 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application AU480	Immuno- assay	Sept '18	1040	1040	0.123, 0.270, 0.492, 0.866, 1.396 mmol/L HbA1c; 8.34 mmol/L Hb	-	European Reference Lab ESRL #13
	HbA1c B00389 Manual Application DxC 700 AU	Immuno- assay	Sept '18	1040	1040	0.123, 0.270, 0.492, 0.866, 1.396 mmol/L HbA1c; 8.34 mmol/L Hb	-	European Reference Lab ESRL #13
Kyowa Medex Co., Ltd.	[†] MetaboLead HbA1c on JCA- BM-9130	Enzymatic	Sept '18	149AHE, 149AHE	151AHD	2.59, 9.69 µmol/L HbA1c; 82.6, 119.4 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on DM- JACK	Enzymatic	Sept '18	149AHE, 149AHE	151AHD	2.59, 9.69 µmol/L HbA1c; 82.6, 119.4 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on Hitachi-7180	Enzymatic	Sept '18	149AHE, 149AHE	151AHD	2.59, 9.69 µmol/L HbA1c; 82.6, 119.4 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on LABOSPECT 006	Enzymatic	Sept '18	149AHE, 149AHE	151AHD	2.59, 9.69 µmol/L HbA1c; 82.6, 119.4 µmol/L Hb	-	ReCCS ASRL#1
	[†] MetaboLead HbA1c on TBA- 120FR	Enzymatic	Sept '18	149AHE, 149AHE	151AHD	2.59, 9.69 µmol/L HbA1c; 82.6, 119.4 µmol/L Hb	-	ReCCS ASRL#1
	[†] Determiner L HbA1c on FUNOTEC FC300	Immuno- assay	Sept '18	148AHC, 148AHC	320AHC	0.0%, 4.5%, 6.7%, 9.8%, 13.3%	-	ReCCS ASRL#1

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JEOL Ltd.	¹ HbA1c on JCA-BM 6010/C	Enzymatic	Sept '18	834RKO, 834RKO, 832RGO	918RCP, 918RCP	3.32, 14.02 μmol/L HbA1c; 97.30, 149.20 μmol/L Hb	-	ReCCS ASRL#1
Agappe Diagnostics Ltd.	¹ AgA1C (Immunoturbidi metric method) on TBA 25 FR	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on TBA 120 FR	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ HbA1c (Immunoturbidi metric method) on Turbiquick	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Nano	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	6.5%, 10.2%, 13.8%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Clinia	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa Ace	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	6.5%, 10.2%, 13.8%, 16.5%	-	European Reference Lab ESRL#10
	¹ Nephelometry on Specific Protein Analyzer Mispa i2	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ Nephelometry on cartridge based Specific Protein Analyzer Mispa i3	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on TMS 30i	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa VIVA	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
	¹ AgA1C (Immunoturbidi metric method) on Mispa CCXL	Immuno- assay	Sept '18	18010083, 18010084, 18060037	28010337, 28010338, 28010339, 28010340	5.7%, 9.5%, 13.5%, 16.5%	-	European Reference Lab ESRL#10
Apex Biotechnology Corp.	Immunoaggluti nation on Eclipse A1c	Immuno- assay	Sept '18	S80103	-	-	-	ReCCS ASRL#1
Medisensor. INC.	Boronate Affinity on careSURE Analyzer 100, CareU analyzer 100, CURO A1c+	Boronate Affinity	Sept '18	BHB18H011	BHC0001, BHC0002	5.00%, 9.00%	-	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
Beckman Coulter Ireland Inc.	HbA1c B90039 Online Application on DxC 700 AU	Immuno- assay	Aug '18	#1035, #M801061	1035	0.114, 0.261, 0.497, 0.915, 1.389 mmol/L HbA1c; 7.51 mmol/L Hb	-	European Reference Lab ESRL#13
Shenzhen Mindray Bio- Medical Electronics Co., Ltd.	Enzymatic on BS-200E	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-240	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-240Pro	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-360E	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-380	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-400	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-460	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-480	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-800 & BS- 800M	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-830	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1
	Enzymatic on BS-2000 & BS2000M	Enzymatic	Aug '18	045618002	155118002	3.10, 16.9 µmol/L HbA1c; 96.0, 157 µmol/L Hb	-	ReCCS ASRL#1

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Shenzhen Mindray Bio-Medical Electronics Co., Ltd.	H50/H50P	Ion-exchange HPLC	Aug '18	2017051201, 2017042601, 2017020901	810RBP N, 810RBP H	5.33%, 11.52%	5k029M	ReCCS ASRL#1
BioSystems	Hemoglobin A1C Direct (HbA1c-DIR) on A15	Immuno-assay	Aug '18	022XA, 022XA	27907	4.5%, 7.1%, 10.8%, 13.8%	-	European Reference Lab ESRL#10
	Hemoglobin A1C Direct (HbA1c-DIR) on A25	Immuno-assay	Aug '18	022XA, 022XA	27907	4.5%, 7.1%, 10.8%, 13.8%	-	European Reference Lab ESRL#10
	Hemoglobin A1C Direct (HbA1c-DIR) on BA200	Immuno-assay	Aug '18	27725, 27725	27907	4.5%, 7.1%, 10.8%, 13.8%	-	European Reference Lab ESRL#10
	Hemoglobin A1C Direct (HbA1c-DIR) on BA400	Immuno-assay	Aug '18	27725, 27725	27907	4.5%, 7.1%, 10.8%, 13.8%	-	European Reference Lab ESRL#10
Sugentech	Immunoassay on INCLIX	Immuno-assay	Aug '18	HBAT18002	-	-	-	ReCCS ASRL#1
Archem Diagnostic Industry Ltd.	HbA1c Direct Method on Architect c	Immuno-assay	Aug '18	072	016	5.9%, 8.1%, 12.5%, 15.5%	-	European Reference Lab ESRL#13
Guangzhou Wondfo Biotech Co., Ltd.	Fluorescence Immunoassay on Finecare FIA Meter	Immuno-assay	Aug '18	W20712409A	-	-	-	ReCCS ASRL#1
Siemens Healthcare Diagnostics Inc.	A1c_3 on Atellica CH Analyzer	Immuno-assay	Aug '18	180045	7KD060	2.75, 3.96, 5.19, 6.91, 11.15 µmol/L A1c; 12.15 g/dL Hb	-	Univ. of Missouri. SRL #9
ELITech Clinical Systems SAS	HbA1c (immunospectrometric assay) on Selectra ProM	Immuno-assay	Aug '18	R180270, R180271, R180272, A170060	R170281, R170282, R170283, R170284	4.9%, 8.9%, 12.3%, 15.9%	-	European Reference Lab ESRL#13
	HbA1c (immunospectrometric assay) on Selectra ProS	Immuno-assay	Aug '18	R180270, R180271, R180272, A170060	R170281, R170282, R170283, R170284	4.9%, 8.9%, 12.3%, 15.9%	-	European Reference Lab ESRL#13
Shandong Tailixin Biomedical Co., Let.	HC Series Automatic glycosylated hemoglobin analyzer	Ion-exchange HPLC	Aug '18	A18041-A, B18041-A, H18041-A	NCCL-D-N-20170330CC04, NCCL-D-N-20170330CC05, NCCL-D-N-20170330CC06	5.02%, 6.86%, 9.34%	G17032-A	Zhongshan Hospital ASRL#2
Ortho Clinical Diagnostics	%A1c on Vitros XT 7600	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.	Immunofluorescence 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

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Menarini Diagnostics	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
	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
	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
	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

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Ortho Clinical Diagnostics	%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
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	¹ 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
	¹ 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

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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	¹ 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
	¹ 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
	¹ 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
	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 DxC Synchron Systems on HBA1c3 UniCel DxC 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

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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
	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

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Alfa Wassermann Diagnostic Technologies, LLC	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 Immunoturbidimetric 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 Immunoturbidimetric on Mindray BA800M	Immuno-assay	Apr '18	734502	704101	0.0%, 5.3%, 8.3%, 11.9%, 15.9%	-	European Reference Lab ESRL#13
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

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Siemens Healthcare Diagnostics Inc.	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
	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.	¹ 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
	¹ 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
	¹ 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
	¹ 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
	¹ 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

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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.	† 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
	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

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Arkray, Inc.	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
	[†] 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

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Arkray, Inc.	[†] 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 SELF CHECK	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
	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.	[†] 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
	[†] 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
	[†] 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
	[†] 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
	[†] 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

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Sekisui Medical Co., Ltd.	[†] 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
	[†] Adams A1c mini	Ion- exchange HPLC	Mar '18	1110001917	1206000717	5.39%, 11.46%	1008009417	ReCCS ASRL#1
	[†] RC20	Ion- exchange HPLC	Mar '18	1701190014	1710300014	5.36%, 11.48%	1612220048	ReCCS ASRL#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.	[†] 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
	[†] 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
	[†] 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
	[†] 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
	[†] 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
	[†] 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

[†] Method is not available in the US

@ Method is not currently available