

Supplemental Data Table S1. Details of the measurement systems used by the participating laboratories

Manufacturers	Roche	Abbott	Siemens	Beckman	Snibe*	Mindray*
Name/model	Roche Cobas e601/ e602/e801/E411	Abbott Architect i2000sr/i2000/ i1000sr	Siemens Advia Centaur CP/XP	Beckman DXI 600/ DXI 800	Maglumi /1000/1000Plus /2000/2000plus	CL6000i/CL6200i/ CL2000i CL1000i
Country/city	Switzerland/ Basel	USA/Chicago	Germany/Berlin	USA/Brea	China/Shenzhen	China/Shenzhen
Principle	Electroluminescence immunoassay	Microparticle chemiluminescence immunoassay	Acridine esterification chemiluminescence immunoassay	Microparticle chemiluminescence immunoassay	Chemiluminescence immunoassay	AMPPD-labeled microparticle chemiluminescence immunoassay
N (%)						
Insulin	52 (57)	10 (11)	9 (10)	6 (6)	5 (5)	4 (4)
C-peptide	50 (57)	10 (11)	10 (11)	3 (3)	5 (6)	5 (6)
Traceability of calibrator						
Insulin	WHO IRR 66/304	WHO IRP 66/304	WHO IRP 66/304	WHO IRP 66/304	WHO IRP 66/304	WHO IRP 66/304
C-peptide	WHO IRP 84/510	WHO IRP 84/510	WHO IRP84/510	WHO ISR 13/146	WHO IRP 84/510	WHO IRP 84/510
Manufacturers recommended RI (nmol/L)						
Insulin	0.017–0.173	N/A	0.021–0.175	0.013–0.161	0.028–0.153	0.015–0.172
C-peptide	0.370–1.470	0.260–1.730	0.160–1.280	0.207–0.913	0.100–1.243	0.330–1.600

*Chinese manufacturer.

Abbreviations: AMPPD, 3-(2'-spiroadamantyl)-4-methoxy-4-(3'-phosphoryloxy)-phenyl-1,2-dioxetane; N/A, not applicable; RI, reference interval; IRR, international reference reagent; IRP, international reference preparation; ISR, international standard reagent.