

Table 2. Assay characteristics of methods used in the present study, together with reference range and units of measurement

TESTS	COMPANY	ANALYZER	METHOD	REF No	UNITS	REFERENCE RANGE	NUMBER OF CASES	MALES	FEMALES
25-OH vitamin D total	DiaSorin Inc	LIAISON	DIRECT CHEMILUMINESCENCE	310600	ng/ml	>30*	8183	1706	6477
Glucose	Medicon SA	Olympus AU5400	HEXOKINASE	1418-0017	mg/dl	70-115	5079	1175	3904
Urea	Medicon SA	Olympus AU5400	UREASE UV	1418-0027	mg/dl	15-55	5675	1265	4410
Creatinine	Medicon SA	Olympus AU5400	JAFFE	1418-0037	mg/dl	1.2	5821	1286	4535
Albumin	Medicon SA	Olympus AU5400	BCG	1418-0197	g/dl	3,5-5,0	4172	957	3215
Calcium	Medicon SA	Olympus AU5400	ARSENazo	1418-0207	mg/dl	8,2-10,6	6622	1322	5300
Phosphate	Medicon SA	Olympus AU5400	MOLYBDATE UV	1418-0217	mg/dl	1,9-2,5	5495	1150	4345
Triglycerides	Medicon SA	Olympus AU5400	GPO-PAP	1418-0067	mg/dl	40-160	3713	779	2934
Cholesterol	Medicon SA	Olympus AU5400	CHOD-POD	1418-0047	mg/dl	<200	3753	791	2962
HDL Cholesterol	Medicon SA	Olympus AU5400	IMMUNOINHIBITION	1418-0247	mg/dl	>35	3773	741	3032
LDL Cholesterol	Friedewald equation		CALCULATED		mg/dl	<130	3569	744	2825
Hb A1c	MENARINI diagnostics	HA-8160	HPLC	03176,03177,03178,03179	%	4-6	739	173	566
CRP	SIEMENS diagnostics	BN II	NEPHELOMETRY	OQIY21	mg/dl	0,08-0,8	1148	253	895
intact PTH	Abbott Laboratories	Architect i2000SR	CHEMILUMINESCENCE MICROPARTICLES IMMUNOASSAY (CMIA)	8K25-25	pg/ml	12-65	3785	675	3110
TSH	Abbott Laboratories	Architect i2000SR	CMIA	7K62-25	μU/ml	0,25-3,43	3965	825	3140
b-ALP	Quidel Corporation	MAGO	ELISA	8012	U/l	11-41**	584	43	541
N-Mid Osteocalcin	Roche diagnostics	ELECSYS 2010	ELECTROCHEMILUMINESCENCE	12149133	ng/ml	11-70***	1173	90	1083
CTX	Roche diagnostics	ELECSYS 2010	ELECTROCHEMILUMINESCENCE	11972308	ng/ml	0,02-1,0****	1206	93	1113
D-Pyrilinks	SIEMENS diagnostics	Immulite 1000	SOLID PHASE ENZYME- LINKED CHEMILUMINESCENCE	LKPD1	nM DPD/mM creatinine	2,5-7,4*****	94	15	79
Ostase	DiaSorin Inc	LIAISON	DIRECT CHEMILUMINESCENCE	310970	μg/l	3-30*****	564	54	510
INS	Abbott Laboratories	Architect i2000SR	CMIA	8K4127	μU/ml	3-17	115	31	84
HBsAg	Abbott Laboratories	Architect i2000SR	CMIA	2G22-01	S/CO	<1	147	???	???
HIV1,2	Abbott Laboratories	Architect i2000SR	CMIA	4J27-03	S/CO	<1	16	???	???
HCV	Abbott Laboratories	Architect i2000SR	CMIA	6C37-10	S/CO	<1	136	???	???
CEA	Abbott Laboratories	Architect i2000SR	CMIA	7K68-27	ng/ml	0-5	260	59	201
CA19-9	Abbott Laboratories	Architect i2000SR	CMIA	2K91-28	U/ml	0-37	194	46	148
CA125	Abbott Laboratories	Architect i2000SR	CMIA	2K45-28	U/ml	0-35	174	12	162

*25-OH vitamin D total: deficiency <10; insufficiency 10-30; sufficiency 30-100; toxicity >100

**b-ALP: premenopausal women 11-30; postmenopausal women 14-43; men (>25y) 15-41

***N-Mid Osteocalcin: premenopausal women (>20y) 11-43; postmenopausal women (without replacement therapy) 15-46; osteoporotic women 13-48; men (18-30y) 24-70; men (30-50y)14-42; men (50-70y) 14-46

****CTX: premenopausal women 0,03-0,57; postmenopausal women 0,1-1,0; men (30-50y) 0,02-0,6; men (50-70y) 0,10-0,70; men (>70y) 0,16-0,85

*****D-Pyrilinks: women 3,0-7,4; men 2,3-5,4

*****Ostase: premenopausal women 3-19; postmenopausal women 6-26; men (>25y) 6-30