

Table 1: List of assay methods and assay imprecision near the mid-normal ranges

Abbr	Analytes	Method	Reagent	Analyzer	Within day CV %	Between day CV %
TP	Protein, total	Timed endpoint biuret method	BC	(1)	0.76	1.49
CysC	Cystatin C	Latex immunoturbidimetric method	NM	(1)	1.54	2.56
IP	Inorganic phosphate	Timed endpoint molybdate UV method	BC	(1)	1.55	0.00
Fe	Iron	Timed endpoint direct colorimetry	BC	(1)	1.97	1.46
UIBC	Unsaturated iron-binding capacity	Timed endpoint direct colorimetry	BC	(1)	1.74	2.18
Apo A1	Apolipoprotein A-I	Turbidimetric method	BC	(1)	1.91	3.72
Apo B	Apolipoprotein B	Turbidimetric method	BC	(1)	1.56	2.59
Apo E	Apolipoprotein E	Turbidimetric immunoassay	NM	(1)	1.62	2.71
Lp(a)	Lipoprotein (a)	Turbidimetric immunoassay	NM	(1)	1.74	3.03
LIP	Lipase	Enzymatic rate method	BC	(1)	2.36	3.43
IgE	immunoglobulin E	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.61	2.17
SAA	Serum amyloid A	Latex immunoturbidimetric method	EM	(1)	1.64	2.63
RBP	Retinol-binding protein	Latex immunoturbidimetric method	NM	(1)	1.78	3.20
ASO	Anti-streptolysin O	Turbidimetric rate method	BC	(1)	1.83	3.34
sTf-R	Soluble transferrin receptor	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.30	1.50
Ferritin	Ferritin	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.79	2.01
EPO	Erythropoietin	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.74	1.76
VitB12	Vitamin B12	Chemiluminescent Enzyme Immunoassay	BC	(2)	3.33	2.36
Folate	Folic acid	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.68	0.77
AFP	α -fetoprotein	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.00	1.90
CEA	Carcinoembryonic antigen	Chemiluminescent Enzyme Immunoassay	BC	(2)	3.03	2.49
CA19-9	Carbohydrate antigen 19-9	Chemiluminescent Enzyme Immunoassay	BC	(2)	3.44	5.46
CA15-3	Carbohydrate antigen 15-3	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.94	2.51
CA125	Carbohydrate antigen 125	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.57	2.16
PSA	Prostate-specific antigen	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.54	3.03
PG1	Pepsinogen I	Latex immunoturbidimetric method	EM	(3)	1.61	2.70
PG2	Pepsinogen II	Latex immunoturbidimetric method	EM	(3)	1.55	2.58
DHEA-S	Dehydroepiandrosterone sulfate	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.52	1.46
PRL	Prolactin	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.16	0.98
LH	Luteinizing hormone	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.64	1.95
FSH	Follicle-stimulating hormone	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.68	1.80
TSH	Thyroid-stimulating hormone	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.23	1.53
FT4	Free thyroxine	Chemiluminescent Enzyme Immunoassay	BC	(2)	2.07	2.14
FT3	Free triiodothyronine	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.95	1.05
Tg	Thyroglobulin	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.95	1.88
Insulin	Insulin	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.75	2.06
ADP	Adiponectin	Latex immunoturbidimetric method	OP	(3)	1.64	2.76
PTH	Intact parathyroid hormone	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.92	1.76
BAP	Bone alkaline phosphatase	Chemiluminescent Enzyme Immunoassay	BC	(2)	1.85	1.98
TRAP-5b	Tartrate-resistant acid phosphatase 5b	Enzyme Immunoassay	NM	-4	1.62	2.71

BC: Beckman Coulter EM: Eiken Medical
 NM: Nittobo Medical OP: Otsuka Pharma

(1) UniCell DxC, BC, Japan
 (2) UniCell DxI, BC, Japan

(3) JCA-BM 6050, JEOL Ltd, Japan
 (4) Manual