

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

CAT. NO. IA2640	GTIN: 05055273203868	SIZE: 12 x 5 ml
CAT. NO. IA2633	GTIN: 05055273203837	SIZE: 4 x 5 ml
LOT NO. 1982EC	EXPIRY: 2023-04-28	

INTENDED USE

This product is intended for *in vitro* diagnostic use, as assayed quality control material to monitor the accuracy and reproducibility of analytes listed in the package insert.

This device is for prescription use only.

SAFETY PRECAUTIONS AND WARNINGS

For *in vitro* diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV 1, HIV 2) antibody, Hepatitis B Surface Antigen (HbsAg), and Hepatitis C Virus (HCV) antibody and found to be NON-REACTIVE. FDA approved methods have been used to conduct these tests.

However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting infectious diseases and disposed of accordingly.

The Abbott Architect CA19-9 assay utilises an antibody/antigen system based on the 1116-NA-19-9 antibody. There are reports that the formulation employed with this system may return elevated concentrations, when compared to other methods for samples expressing high levels of 1116-NA-19-9 reactive determinants.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C.

Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C. ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

UNOPENED: Store refrigerated (+2°C to +8°C). Stable to expiration date printed on individual vials.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded, and a fresh vial reconstituted.

PREPARATION

Immunoassay Premium is supplied lyophilised.

- Carefully reconstitute each vial of lyophilised serum with exactly 5 ml of distilled water at +15°C to +25°C. Close the bottle and allow to stand for 30 minutes before use. Ensure contents are completely dissolved by swirling gently. Avoid formation of foam. Do not shake.
- Refer to the Control section of the individual analyser application.
- Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

MATERIALS PROVIDED

Immunoassay Premium - Level 3: 12 x 5 ml Tri-Level: 4 x 5 ml

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. Aldosterone is present in control levels 2 and level 3 only. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

If a method is unavailable, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email Technical.Services@randox.com.



Randox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

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IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2023-04-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	53.4	40.1	66.8	DIAsource ELISA
	ng/ml	17.7	13.3	22.1	
25-OH Vitamin D	nmol/l	132	99.0	165	Siemens Centaur XP/XPT/Classic
	nmol/l	77.1	57.8	96.4	Roche Vitamin D Total
	nmol/l	89.4	67.1	112	Abbott Architect
	nmol/l	109	81.8	136	Vitros ECi
	nmol/l	85.9	64.4	107	BioMerieux Vidas
	nmol/l	92.2	69.2	115	Beckman Dxl 600/800
	nmol/l	85.4	64.1	107	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	98.1	73.6	123	Roche Vitamin D Total II
ACTH	pmol/l	53.1	39.8	66.4	Siemens Immulite 2000/2500
	pg/ml	241	181	301	
	pmol/l	35.5	26.6	44.4	Roche Cobas E411
	pg/ml	161	121	201	
	pmol/l	38.2	28.7	47.8	Roche Cobas 6000/8000
	pg/ml	174	130	218	
Aldosterone	pmol/l	792	594	990	Diasorin Liaison XL
	pg/ml	286	214	358	
Alpha-fetoprotein	KIU/l = IU/ml	188	150	226	BioMerieux Vidas
	ng/ml	227	182	272	
	KIU/l = IU/ml	156	125	187	Beckman Access
	ng/ml	189	151	227	
	KIU/l = IU/ml	174	139	209	Vitros ECi
	ng/ml	181	145	217	
	KIU/l = IU/ml	199	157	241	Siemens Centaur XP/XPT/Classic
	ng/ml	241	190	292	
	KIU/l = IU/ml	170	136	204	Siemens Immulite 2000/2500
	ng/ml	206	165	247	
	KIU/l = IU/ml	165	132	198	Abbott Architect
	ng/ml	200	160	240	
	KIU/l = IU/ml	157	126	188	Beckman Dxl800
	ng/ml	190	152	228	
KIU/l = IU/ml	185	148	222	Roche Cobas 6000/8000	
ng/ml	224	179	269		
KIU/l = IU/ml	192	154	230	Roche Cobas E411	
ng/ml	232	186	278		
Amikacin	µmol/l	24.1	19.3	28.9	Gravimetric
	µg/ml	14.1	11.3	16.9	
Androstenedione	nmol/l	29.5	22.1	36.9	Siemens Immulite 2000
	ng/ml	8.47	6.34	10.6	

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Range						
Analyte	unit	Target	low	high	methods	
Beta-2-microglobulin	µg/ml = mg/l	5.27	4.22	6.32	Siemens Immulite 2000/2500	
	µg/ml = mg/l	5.65	4.52	6.78	Abbott Architect	
	µg/ml = mg/l	5.53	4.42	6.64	Roche Cobas 6000/8000	
C-Peptide	nmol/l	3.650	2.740	4.560	Siemens Immulite 2000/2500	
	ng/ml	11.0	8.27	13.7		
	nmol/l	3.510	2.630	4.390	Roche Cobas 6000/8000	
	ng/ml	10.6	7.94	13.3		
Carbamazepine	µmol/l	66.5	53.2	79.8	Siemens Dimension	
	µg/ml	15.7	12.6	18.8		
	µmol/l	69.0	55.2	82.8	Abbott Architect	
	µg/ml	16.3	13.0	19.6		
	µmol/l	69.1	55.3	82.9	Roche Cobas 6000/8000	
	µg/ml	16.3	13.1	19.5		
Carbimazole	µmol/l	72.2	57.8	86.6	Gravimetric	
	µg/ml	17.1	13.7	20.5		
	Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	50.3	40.2	60.4	BioMerieux Vidas
		ng/ml = µg/l	54.8	43.8	65.8	Vitros ECI
		ng/ml = µg/l	47.2	37.8	56.6	Beckman Access
		ng/ml = µg/l	53.5	36.9	70.1	Siemens Centaur XP/XPT/Classic
ng/ml = µg/l		65.8	52.6	79.0	Siemens Immulite 2000/2500	
ng/ml = µg/l		59.2	47.4	71.0	Abbott Architect	
ng/ml = µg/l		44.6	35.7	53.5	Beckman DxI800	
ng/ml = µg/l		44.9	35.9	53.9	Roche Cobas 6000/8000	
Cortisol	ng/ml = µg/l	45.9	36.7	55.1	Roche Cobas E411	
	nmol/l	1148	792	1504	Siemens Centaur XP/XPT/Classic	
	µg/dl	41.3	28.5	54.1		
	nmol/l	974	731	1218	Siemens Immulite 2000/2500	
	µg/dl	35.1	26.3	43.9		
	nmol/l	999	749	1249	Vitros ECI	
	µg/dl	36.0	27.0	45.0		
	nmol/l	926	695	1158	Abbott Architect	
	µg/dl	33.3	25.0	41.6		
	nmol/l	977	733	1221	Beckman DxI800	
	µg/dl	35.2	26.4	44.0		
	nmol/l	1121	841	1401	Roche Cobas 6000/8000	
	µg/dl	40.4	30.3	50.5		
	nmol/l	1161	871	1451	Roche Cobas E411	
µg/dl	41.8	31.4	52.2			
nmol/l	1107	830	1384	Roche Cobas 4000/e411 Gen II		
µg/dl	39.9	29.9	49.9			
nmol/l	1016	762	1270	Roche Cobas 6000/8000 Gen II		
µg/dl	36.6	27.4	45.8			
DHEA-S	µmol/l	16.5	13.2	19.8	Siemens Immulite 2000/2500	
	µmol/l	20.4	16.3	24.5	Abbott Architect	
	µmol/l	25.3	20.2	30.4	Roche Cobas E411	
	µmol/l	25.9	20.7	31.1	Roche Cobas 6000/8000	

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Analyte	unit	Target	Range		methods
			low	high	
Digoxin	nmol/l	4.70	3.76	5.64	Siemens Immulite 2000/2500
	ng/ml	3.67	2.94	4.40	
	nmol/l	3.95	3.16	4.74	Abbott Architect
	ng/ml	3.08	2.47	3.69	
	nmol/l	4.56	3.65	5.47	Beckman DxI800
	ng/ml	3.56	2.85	4.27	
Ethosuximide	nmol/l	5.12	4.10	6.14	Gravimetric
	ng/ml	4.00	3.20	4.80	
Ethosuximide	µmol/l	493	394	592	Gravimetric
	µg/ml	69.9	55.9	83.9	
Ferritin	ng/ml = µg/l	301	241	361	Roche Elecsys
	ng/ml = µg/l	213	170	256	Beckman Access
	ng/ml = µg/l	176	141	211	Vitros ECI
	ng/ml = µg/l	260	203	317	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	258	206	310	Siemens Immulite 2000/2500
	ng/ml = µg/l	325	260	390	Abbott Architect
	ng/ml = µg/l	299	239	359	Roche Modular E170
	ng/ml = µg/l	206	165	247	Beckman DxI800
Folate	nmol/l	23.1	17.6	28.6	Beckman Access
	ng/ml	10.2	7.76	12.6	
	nmol/l	16.4	12.5	20.3	Siemens Immulite 2000
	ng/ml	7.23	5.51	8.95	
	nmol/l	14.1	10.7	17.5	Vitros ECI
	ng/ml	6.22	4.72	7.72	
	nmol/l	18.6	14.1	23.1	Abbott Architect
	ng/ml	8.20	6.22	10.2	
	nmol/l	41.2	24.7	57.7	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	18.2	10.9	25.5	
	nmol/l	22.9	17.4	28.4	Beckman DxI800
	ng/ml	10.1	7.67	12.5	
Free T3	pmol/l	25.3	19.0	31.6	BioMerieux Vidas
	ng/dl	1.64	1.24	2.04	
	pg/ml	16.5	12.4	20.6	
	pmol/l	19.4	14.6	24.3	Beckman Access
	ng/dl	1.26	0.949	1.57	
	pg/ml	12.6	9.50	15.7	
	pmol/l	35.0	26.3	43.8	Vitros ECI
	ng/dl	2.28	1.71	2.85	
	pg/ml	22.8	17.1	28.5	
	pmol/l	22.9	13.7	32.1	Siemens Centaur XP/XPT/Classic
	ng/dl	1.49	0.894	2.09	
	pg/ml	14.9	8.94	20.9	
	pmol/l	16.7	12.5	20.9	Siemens Immulite 2000/2500
	ng/dl	1.09	0.813	1.37	
	pg/ml	10.9	8.14	13.7	
	pmol/l	24.9	18.7	31.1	Abbott Architect
ng/dl	1.62	1.22	2.02		
pg/ml	16.2	12.2	20.2		

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Analyte	unit	Target	Range		methods	
			low	high		
Free T3	pmol/l	18.3	13.7	22.9	Beckman Dxl800	
	ng/dl	1.19	0.891	1.49		
	pg/ml	11.9	8.92	14.9		
	pmol/l	28.8	21.6	36.0	Roche Cobas E411	
		ng/dl	1.87	1.40		2.34
		pg/ml	18.7	14.1		23.3
	pmol/l	30.1	22.6	37.6	Roche Cobas 6000/8000	
		ng/dl	1.96	1.47		2.45
		pg/ml	19.6	14.7		24.5
Free T4	pmol/l	71.0	53.3	88.8	Siemens Immulite 1000	
	ng/dl	5.54	4.16	6.92		
	pg/ml	55.4	41.6	69.2		
	pmol/l	45.3	34.0	56.6	Beckman Access	
		ng/dl	3.53	2.65		4.41
		pg/ml	35.3	26.5		44.1
	pmol/l	89.9	67.4	112	Vitros Eci	
		ng/dl	7.01	5.26		8.76
		pg/ml	70.1	52.6		87.6
	pmol/l	40.8	30.6	51.0	Siemens Centaur XP/XPT/Classic	
		ng/dl	3.18	2.39		3.97
		pg/ml	31.8	23.9		39.7
	pmol/l	60.8	45.6	76.0	Siemens Immulite 2000/2500	
		ng/dl	4.74	3.56		5.92
		pg/ml	47.4	35.6		59.2
	pmol/l	37.3	28.0	46.6	Abbott Architect	
		ng/dl	2.91	2.18		3.64
		pg/ml	29.1	21.8		36.4
	pmol/l	49.7	37.3	62.1	Beckman Dxl800	
		ng/dl	3.88	2.91		4.85
		pg/ml	38.8	29.1		48.5
	pmol/l	55.8	41.9	69.8	Roche Cobas 6000/8000	
		ng/dl	4.35	3.27		5.43
		pg/ml	43.5	32.7		54.3
	pmol/l	56.3	42.2	70.4	Roche Cobas E411	
		ng/dl	4.39	3.29		5.49
		pg/ml	43.9	32.9		54.9
pmol/l	61.1	45.8	76.4	Biomerieux Vidas FT4N Kit		
	ng/dl	4.77	3.57		5.97	
	pg/ml	47.7	35.7		59.7	
pmol/l	44.6	33.5	55.8	Siemens Centaur CP		
	ng/dl	3.48	2.61		4.35	
	pg/ml	34.8	26.1		43.5	
pmol/l	44.2	33.2	55.3	Mindray CL-2000i		
	ng/dl	3.45	2.59		4.31	
	pg/ml	34.5	25.9		43.1	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

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Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	69.3	55.4	83.2	BioMerieux Vidas
	mU/ml	68.3	54.6	82.0	Beckman Access
	mU/ml	45.4	36.3	54.5	Vitros ECI
	mU/ml	81.8	63.8	99.8	Siemens Centaur XP/XPT/Classic
	mU/ml	58.4	46.7	70.1	Siemens Immulite 2000/2500
	mU/ml	56.3	45.0	67.6	Abbott Architect
	mU/ml	66.4	53.1	79.7	Beckman Dxl800
	mU/ml	55.2	44.2	66.2	Roche Cobas E411
	mU/ml	52.6	42.1	63.1	Roche Cobas 6000/8000
Gentamicin	µmol/l	11.7	9.36	14.0	Gravimetric
	µg/ml	5.59	4.47	6.69	
Growth Hormone (GH)	µU/ml	49.5	39.6	59.4	Siemens Immulite 2000/2500
	ng/ml	16.5	13.2	19.8	
	µU/ml	41.3	33.0	49.6	Beckman Dxl800
	ng/ml	13.8	11.0	16.6	
	µU/ml	43.9	35.1	52.7	Roche Cobas 6000/8000
Immunoglobulin E	KIU/I = IU/ml	500	400	600	BioMerieux Vidas
	KIU/I = IU/ml	599	359	839	Siemens Centaur XP/XPT/Classic
	KIU/I = IU/ml	541	433	649	Siemens Immulite 2000/2500
	KIU/I = IU/ml	538	430	646	Abbott Architect
	KIU/I = IU/ml	595	476	714	Roche Cobas E411
	KIU/I = IU/ml	599	479	719	Roche Cobas 6000/8000
Insulin	mU/l	27.1	20.3	33.9	Siemens Centaur XP/XPT/Classic
	µU/ml	27.1	20.3	33.9	
	mU/l	10.2	7.65	12.8	Siemens Immulite 2000
	µU/ml	10.2	7.65	12.8	
	mU/l	26.5	19.9	33.1	Beckman Access
	µU/ml	26.5	19.9	33.1	
	mU/l	24.7	18.5	30.9	Abbott Architect
	µU/ml	24.7	18.5	30.9	
	mU/l	33.2	24.9	41.5	Roche Cobas E411
	µU/ml	33.2	24.9	41.5	
	mU/l	32.6	24.5	40.8	Roche Cobas 6000/8000
	µU/ml	32.6	24.5	40.7	
Luteinising Hormone (LH)	mU/ml	41.9	33.5	50.3	Beckman Access
	mU/ml	57.6	46.1	69.1	BioMerieux Vidas
	mU/ml	97.8	78.2	117	Siemens Immulite 1000
	mU/ml	70.0	56.0	84.0	Vitros ECI
	mU/ml	53.3	41.0	65.6	Siemens Centaur XP/XPT/Classic
	mU/ml	88.0	70.4	106	Siemens Immulite 2000
	mU/ml	47.6	38.1	57.1	Abbott Architect
	mU/ml	43.7	35.0	52.4	Beckman Dxl800

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Range						
Analyte	unit	Target	low	high	methods	
Luteinising Hormone (LH)	mU/ml	58.2	46.6	69.8	Roche Cobas E411	
	mU/ml	57.1	45.7	68.5	Roche Cobas 6000/8000	
Oestradiol	pmol/l	2671	2137	3205	BioMerieux Vidas	
	pg/ml	727	581	873		
	pmol/l	2243	1794	2692	Vitros ECI	
	pg/ml	610	488	732		
	pmol/l	1207	966	1448	Abbott Architect	
	pg/ml	328	263	393		
	pmol/l	1946	1557	2335	Beckman Dxl800	
	pg/ml	529	424	634		
	pmol/l	1397	1118	1676	Roche Cobas 6000/8000 (Estradiol II)	
	pg/ml	380	304	456		
	pmol/l	1370	1096	1644	Roche Cobas 4000/E411 (Estradiol II)	
	pg/ml	373	298	448		
	pmol/l	2242	1390	3094	Siemens Centaur XP/XPT/Classic Enhanced (eE2)	
	pg/ml	610	378	842		
Paracetamol	pmol/l	1395	1116	1674	Roche Cobas 6000/8000 (Estradiol III)	
	pg/ml	379	304	454		
	pmol/l	1368	1094	1642	Roche Cobas 4000/E411 (Estradiol III)	
	pg/ml	372	298	446		
	pmol/l	1489	1191	1787	Beckman Dxl600/800 Sensitive B84493	
	pg/ml	405	324	486		
Phenobarbital	mmol/l	0.480	0.384	0.576	Roche Cobas 6000/8000	
	mg/l	72.6	58.1	87.1		
	mmol/l	0.529	0.420	0.630	Gravimetric	
	mg/l	80.0	63.5	95.3		
Phenytoin	µmol/l	118	94.4	142	Abbott Architect	
	µg/ml	27.4	21.9	32.9		
	µmol/l	121	96.8	145	Siemens Immulite 2000/2500	
	µg/ml	28.1	22.5	33.7		
Phenytoin	µmol/l	121	96.8	145	Gravimetric	
	µg/ml	28.1	22.5	33.6		
	µmol/l	98.6	78.9	118	Siemens Dimension	
	µg/ml	24.9	19.9	29.9		
	µmol/l	90.7	72.6	109	Abbott Architect	
	µg/ml	22.9	18.3	27.5		
Phenytoin	µmol/l	91.3	73.0	110	Roche Cobas 6000/8000	
	µg/ml	23.1	18.4	27.8		
	µmol/l	99.8	79.8	120	Gravimetric	
	µg/ml	25.2	20.1	30.3		
	Primidone	µmol/l	32.7	26.2	39.2	Gravimetric
		µg/ml	7.14	5.72	8.56	
Progesterone	nmol/l	94.1	75.3	113	Beckman Access Prog Cal 33555	
	ng/ml	29.5	23.6	35.4		
	nmol/l	138	110	166	BioMerieux Vidas	
	ng/ml	43.2	34.4	52.0		

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Analyte	unit	Target	Range		methods	
			low	high		
Progesterone	nmol/l	101	80.8	121	Vitros ECI	
	ng/ml	31.6	25.3	37.9		
	nmol/l	69.3	49.2	89.4	Siemens Centaur XP/XPT/Classic	
	ng/ml	21.7	15.4	28.0		
	nmol/l	63.3	50.6	76.0	Siemens Immulite 2000/2500	
	ng/ml	19.8	15.8	23.8		
	nmol/l	80.9	64.7	97.1	Abbott Architect	
	ng/ml	25.3	20.3	30.3		
	nmol/l	92.3	73.8	111	Beckman Dxl Prog Cal 33555	
	ng/ml	28.9	23.1	34.7		
	nmol/l	93.1	74.5	112	Roche Cobas 4000/e411 (Prog. II)	
	ng/ml	29.1	23.3	34.9		
	nmol/l	97.1	77.7	117	Roche Cobas 6000/8000 (Prog. II)	
	ng/ml	30.4	24.3	36.5		
Prolactin	nmol/l	84.0	67.2	101	Beckman Dxl Prog DE Cal A80773	
	ng/ml	26.3	21.0	31.6		
	nmol/l	96.4	77.1	116	Roche Cobas 6000/8000 (Prog. III)	
	ng/ml	30.2	24.1	36.3		
	nmol/l	97.4	77.9	117	Roche Cobas 4000/e411 (Prog. III)	
	ng/ml	30.5	24.4	36.6		
	PSA Free	µU/ml	801	641	961	Beckman Access
		µU/ml	1205	964	1446	BioMerieux Vidas
		µU/ml	824	659	989	Vitros ECI
		µU/ml	845	634	1056	Siemens Centaur XP/XPT/Classic
		µU/ml	838	670	1006	Siemens Immulite 2000/2500
		µU/ml	982	786	1178	Abbott Architect
		µU/ml	775	620	930	Beckman Dxl800
		µU/ml	907	726	1088	Roche Elecsys/E170/Cobas 6000/8000 PRLII
µU/ml		968	774	1162	Roche Cobas E411	
µU/ml		927	742	1112	Roche Cobas 6000/8000	
µU/ml		1047	838	1256	Diasorin Liaison XL	
PSA Total	ng/ml = µg/l	22.5	16.9	28.1	Abbott Architect	
	ng/ml = µg/l	21.7	16.3	27.1	Siemens Centaur XP/XPT/Classic	
	ng/ml = µg/l	18.8	14.1	23.5	Roche Cobas E411	
	ng/ml = µg/l	18.9	14.2	23.6	Roche Cobas 6000/8000	
PSA Total	ng/ml = µg/l	21.5	16.1	26.9	Siemens Immulite 1000 1st generation	
	ng/ml = µg/l	26.1	19.6	32.6	Beckman Access standardised to Hybritech	
	ng/ml = µg/l	22.3	16.7	27.9	Siemens Centaur XP/XPT/Classic	
	ng/ml = µg/l	25.2	18.9	31.5	bioMerieux VIDAS TPSA	
	ng/ml = µg/l	20.1	15.1	25.1	Siemens Immulite 2000/2500 1st generation	
	ng/ml = µg/l	20.4	15.3	25.5	Abbott Architect	
	ng/ml = µg/l	26.2	19.7	32.8	Vitros ECI	
	ng/ml = µg/l	25.2	18.9	31.5	Beckman Dxl standardisd to Hybritech	
	ng/ml = µg/l	19.5	14.6	24.4	Beckman Dxl800 standardised to WHO IRP96/670	
	ng/ml = µg/l	26.4	19.8	33.0	Roche Cobas E411	
	ng/ml = µg/l	26.6	20.0	33.3	Roche Cobas 6000/8000	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2023-04-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	26.2	19.7	32.8	Ortho Vitros 3600/5600/ECi PSA II
Salicylic Acid	mmol/l	2.88	2.30	3.46	Gravimetric
	mg/dl	39.8	31.8	47.8	
SHBG	nmol/l	38.7	31.0	46.4	Siemens Immulite 2000/2500
	nmol/l	36.2	29.0	43.4	Abbott Architect
	nmol/l	36.8	29.4	44.2	Beckman DxI800
T Uptake	%U	38.8	31.8	45.8	Siemens Immulite 2000
Testosterone	nmol/l	41.6	33.3	49.9	Vitros ECi
	ng/ml	12.0	9.59	14.4	
	ng/dl	1198	959	1437	
	nmol/l	26.0	19.0	33.0	Siemens Centaur XP/XPT/Classic
	ng/ml	7.49	5.47	9.51	
	ng/dl	749	547	951	
	nmol/l	35.7	28.6	42.8	Siemens Immulite 2000/2500
	ng/ml	10.3	8.24	12.4	
	ng/dl	1028	824	1232	
	nmol/l	28.9	23.1	34.7	Abbott Architect
	ng/ml	8.32	6.65	9.99	
	ng/dl	832	665	999	
	nmol/l	27.3	21.8	32.8	Beckman Access
	ng/ml	7.86	6.28	9.44	
	ng/dl	786	628	944	
	nmol/l	24.6	19.7	29.5	Beckman DxI800
	ng/ml	7.08	5.67	8.49	
	ng/dl	708	567	849	
	nmol/l	30.1	24.1	36.1	Roche Cobas 4000/e411 Test II
	ng/ml	8.67	6.94	10.4	
ng/dl	867	694	1040		
nmol/l	31.4	25.1	37.7	Roche Cobas 6000 Test 2	
ng/ml	9.04	7.23	10.9		
ng/dl	904	723	1085		
nmol/l	29.6	23.7	35.5	Abbott Architect 2nd Generation	
ng/ml	8.52	6.83	10.2		
ng/dl	852	683	1021		
nmol/l	25.5	18.6	32.4	Siemens Centaur TST II	
ng/ml	7.34	5.36	9.32		
ng/dl	734	536	932		
Theophylline	µmol/l	159	127	191	Roche Cobas 6000/8000
	µg/ml	28.7	22.9	34.5	
	µmol/l	166	133	199	Gravimetric
	µg/ml	29.9	24.0	35.9	
Thyroglobulin	ng/ml	30.4	22.8	38.0	Siemens Immulite 2000
	ng/ml	62.2	46.7	77.8	Roche Cobas 6000/8000
	ng/ml	61.2	45.9	76.5	Roche Cobas 6000 TGII
	ng/ml	59.3	44.5	74.1	Roche Cobas 4000/E411 TGII
Thyroid Stimulating	µU/ml = mIU/l	13.7	11.0	16.4	bioMerieux VIDAS TSH

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2023-04-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	19.1	15.3	22.9	Siemens Immulite 1000
	µU/ml = mIU/l	18.7	15.0	22.4	Roche Elecsys
	µU/ml = mIU/l	17.5	14.0	21.0	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	27.0	21.6	32.4	Vitros ECi
	µU/ml = mIU/l	20.1	13.7	26.5	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	18.1	14.5	21.7	Siemens Immulite 2000/2500
	µU/ml = mIU/l	15.5	12.4	18.6	Abbott Architect
	µU/ml = mIU/l	12.0	9.60	14.4	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	15.7	12.6	18.8	Beckman Access Fast TSH
	µU/ml = mIU/l	18.6	14.9	22.3	Roche Cobas E411
	µU/ml = mIU/l	18.3	14.6	22.0	Roche Cobas 6000/8000
	µU/ml = mIU/l	16.6	13.3	19.9	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	19.4	13.2	25.6	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	25.1	20.1	30.1	Mindray CL-2000i
µU/ml = mIU/l	17.0	13.6	20.4	Beckman Dxl 600/800 Access (3rd IS)	
Tobramycin	µmol/l	10.3	8.24	12.4	Gravimetric
	µg/ml	4.82	3.86	5.80	
Total Beta hCG	mU/ml=IU/l	518	414	622	BioMerieux Vidas
	IU/ml	0.518	0.414	0.622	
	mU/ml=IU/l	255	204	306	Beckman Access
	IU/ml	0.255	0.204	0.306	
	mU/ml=IU/l	515	412	618	Vitros ECi
	IU/ml	0.515	0.412	0.618	
	mU/ml=IU/l	239	143	335	Siemens Centaur XP/XPT/Classic
	IU/ml	0.239	0.143	0.335	
	mU/ml=IU/l	628	502	754	Siemens Immulite 2000
	IU/ml	0.628	0.502	0.754	
	mU/ml=IU/l	259	207	311	Abbott Architect
	IU/ml	0.259	0.207	0.311	
	mU/ml=IU/l	495	396	594	Siemens Dimension
	IU/ml	0.495	0.396	0.594	
	mU/ml=IU/l	268	214	322	Beckman Dxl800
	IU/ml	0.268	0.214	0.322	
	mU/ml=IU/l	359	287	431	Roche STAT (Intact)
	IU/ml	0.359	0.287	0.431	
mU/ml=IU/l	321	257	385	Roche hCG+Beta	
IU/ml	0.321	0.257	0.385		
mU/ml=IU/l	273	218	328	Beckman Access Total BhCG (5th IS)	
IU/ml	0.273	0.218	0.328		
mU/ml=IU/l	274	219	329	Beckman Dxl Total BhCG (5th IS)	
IU/ml	0.274	0.219	0.329		
mU/ml=IU/l	221	133	309	Siemens Centaur CP	
IU/ml	0.221	0.133	0.309		
Total T3	nmol/l	6.41	4.81	8.01	BioMerieux Vidas
	ng/ml	4.17	3.13	5.21	
	ng/dl	417	313	521	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2023-04-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	7.15	5.36	8.94	Siemens Centaur XP/XPT/Classic
	ng/ml	4.65	3.49	5.81	
	ng/dl	465	349	581	
	nmol/l	6.95	5.21	8.69	Siemens Immulite 2000/2500
	ng/ml	4.52	3.39	5.65	
	ng/dl	452	339	565	
	nmol/l	5.42	4.07	6.78	Abbott Architect
	ng/ml	3.53	2.65	4.41	
	ng/dl	353	265	441	
	nmol/l	7.30	5.48	9.13	Vitros ECi
	ng/ml	4.75	3.57	5.93	
	ng/dl	475	357	593	
	nmol/l	6.08	4.56	7.60	Beckman Dxl800
	ng/ml	3.96	2.97	4.95	
	ng/dl	396	297	495	
	nmol/l	6.80	5.10	8.50	Roche Cobas E411
	ng/ml	4.43	3.32	5.54	
	ng/dl	443	332	554	
nmol/l	6.61	4.96	8.26	Roche Cobas 6000/8000	
ng/ml	4.30	3.23	5.37		
ng/dl	430	323	537		
Total T4	nmol/l	177	133	221	Vitros ECi
	µg/dl	13.8	10.4	17.2	
	ng/ml	138	104	172	
	nmol/l	198	149	248	BioMerieux Vidas
	µg/dl	15.4	11.6	19.2	
	ng/ml	154	116	192	
	nmol/l	189	142	236	Beckman Access
	µg/dl	14.7	11.1	18.3	
	ng/ml	147	111	183	
	nmol/l	174	122	226	Siemens Centaur XP/XPT/Classic
	µg/dl	13.6	9.52	17.7	
	ng/ml	136	95.2	177	
	nmol/l	168	126	210	Siemens Immulite 2000/2500
	µg/dl	13.1	9.83	16.4	
	ng/ml	131	98.3	164	
	nmol/l	164	123	205	Abbott Architect
	µg/dl	12.8	9.59	16.0	
	ng/ml	128	95.9	160	
nmol/l	168	126	210	Roche Cobas E411	
µg/dl	13.1	9.83	16.4		
ng/ml	131	98.3	164		
nmol/l	162	122	203	Roche Cobas 6000/8000	
µg/dl	12.6	9.52	15.7		
ng/ml	126	95.2	157		
Valproic Acid	µmol/l	938	750	1126	Siemens Immulite 2000/2500
	µg/ml	135	108	162	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5 ml / 4 x 5 ml Expiry: 2023-04-28

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	µmol/l	905	724	1086	Abbott Architect
	µg/ml	131	104	158	
	µmol/l	930	744	1116	Roche Cobas 6000/8000
	µg/ml	134	107	161	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
Vancomycin	µmol/l	10.6	8.48	12.7	Abbott Architect
	µg/ml	15.7	12.6	18.8	
	µmol/l	9.02	7.22	10.8	Roche Cobas 6000/8000
	µg/ml	13.4	10.7	16.1	
	µmol/l	10.8	8.64	13.0	Gravimetric
	µg/ml	16.0	12.8	19.3	
Vitamin B12	pmol/l	623	498	748	Beckman Access
	pg/ml	844	675	1013	
	pmol/l	742	557	927	Siemens Centaur XP/XPT/Classic
	pg/ml	1005	754	1256	
	pmol/l	635	508	762	Siemens Immulite 2000
	pg/ml	860	688	1032	
	pmol/l	678	542	814	Abbott Architect
	pg/ml	919	734	1104	
	pmol/l	602	482	722	Vitros ECI
	pg/ml	816	653	979	
pmol/l	578	462	694	Beckman DxI800	
	pg/ml	783	626	940	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633		Lot No. 1982EC		Size: 12 x 5ml / 4 x 5ml		Expiry: 2023-04-28	
Analyte	unit	Target	Range		methods		
			low	high			
25-OH Vitamin D	nmol/l	132	99.0	165	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	nmol/l	137	103	171	SIEMENS ATELICA IM		
Alpha-fetoprotein	KIU/l = IU/ml	199	157	241	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	241	190	292			
	KIU/l = IU/ml	202	162	242	SIEMENS ATELICA IM		
	ng/ml	244	195	293			
Amikacin	µmol/l	4.01	3.21	4.81	EMIT		
	µg/ml	2.35	1.88	2.82			
Beta-2-microglobulin	µg/ml = mg/l	6.53	5.22	7.84	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml = mg/l	6.36	5.09	7.63	SIEMENS ATELICA CH		
C-Peptide	nmol/l	2.69	2.02	3.36	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	8.12	6.09	10.2			
	nmol/l	2.78	2.09	3.47	SIEMENS ATELICA IM		
	ng/ml	8.39	6.29	10.5			
Carbamazepine	µmol/l	64.9	51.9	77.9	SIEMENS DIMENSION RxL/Max/Xpand		
	µg/ml	15.3	12.2	18.4			
	µmol/l	68.1	54.5	81.7	SIEMENS DIMENSION EXL		
	µg/ml	16.1	12.9	19.3			
	µmol/l	63.5	50.8	76.2	SIEMENS DIMENSION Vista		
	µg/ml	15.0	12.0	18.0			
	µmol/l	62.0	49.6	74.4	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml	14.7	11.8	17.6			
	µmol/l	69.3	43.0	95.6	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/ml	16.4	10.2	22.6			
Carcinoembryonic Antigen (CEA)	µmol/l	66.6	53.3	79.9	SIEMENS ATELICA CH		
	µg/ml	15.7	12.6	18.8			
	ng/ml = µg/l	53.5	36.9	70.1	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml = µg/l	52.0	41.6	62.4	SIEMENS ATELICA IM		
Cortisol	nmol/l	1148	792	1504	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/dl	41.3	28.5	54.1			
	nmol/l	1261	946	1576	SIEMENS ATELICA IM		
	µg/dl	45.4	34.1	56.7			
DHEA-S	µmol/l	16.4	9.84	23.0	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µmol/l	16.0	12.8	19.2	SIEMENS ATELICA IM		
Digoxin	nmol/l	4.62	3.70	5.54	SIEMENS DIMENSION RxL/Max/Xpand		
	ng/ml	3.61	2.89	4.33			
	nmol/l	4.47	3.58	5.36	SIEMENS DIMENSION EXL		
	ng/ml	3.49	2.79	4.19			
	nmol/l	4.57	3.66	5.48	SIEMENS DIMENSION Vista		
	ng/ml	3.57	2.86	4.28			
	nmol/l	4.58	3.66	5.50	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	ng/ml	3.58	2.86	4.30			
	nmol/l	4.95	3.86	6.04	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	3.87	3.02	4.72			
	nmol/l	4.71	3.77	5.65	SIEMENS ATELICA CH		
	ng/ml	3.68	2.94	4.42			
nmol/l	4.58	3.66	5.50	SIEMENS ATELICA IM			
ng/ml	3.58	2.86	4.30				

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5ml / 4 x 5ml Expiry: 2023-04-28					
Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	268	214	322	SIEMENS DIMENSION RxL/Max/Xpand
	ng/ml = µg/l	277	222	332	SIEMENS DIMENSION EXL
	ng/ml = µg/l	241	193	289	SIEMENS DIMENSION Vista
	ng/ml = µg/l	260	203	317	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/ml = µg/l	248	198	298	SIEMENS ATELICA IM
Folate	nmol/l	13.2	10.0	16.3	SIEMENS DIMENSION EXL
	ng/ml	5.80	4.41	7.19	
	nmol/l	12.2	9.27	15.1	SIEMENS DIMENSION Vista
	ng/ml	5.38	4.09	6.67	
	nmol/l	41.2	24.7	57.7	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/ml	18.2	10.9	25.5	
	nmol/l	35.6	27.1	44.1	SIEMENS ATELICA IM
Free T3	pmol/l	22.9	13.7	32.1	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/dl	1.49	0.894	2.09	
	pg/ml	14.9	8.94	20.9	
	pmol/l	23.7	17.8	29.6	SIEMENS ATELICA IM
	ng/dl	1.54	1.16	1.92	
	pg/ml	15.4	11.6	19.2	
Free T4	pmol/l	40.8	30.6	51.0	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/dl	3.18	2.39	3.97	
	pg/ml	31.8	23.9	39.7	
	pmol/l	42.5	31.9	53.1	SIEMENS ATELICA IM
	ng/dl	3.32	2.49	4.15	
	pg/ml	33.2	24.9	41.5	
FSH	mU/ml	81.8	63.8	99.8	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	mU/ml	85.0	68.0	102	SIEMENS ATELICA IM
Gentamicin	µmol/l	TBC			SIEMENS DIMENSION RxL/Max/Xpand
	µg/ml				
	µmol/l	11.9	9.50	14.3	SIEMENS DIMENSION EXL
	µg/ml	5.69	4.55	6.83	
	µmol/l	13.2	10.6	15.8	SIEMENS DIMENSION Vista
	µg/ml	6.31	5.05	7.57	
	µmol/l	11.2	8.92	13.4	SIEMENS ADVIA CHEMISTRY INSTRUMENTS
	µg/ml	5.33	4.26	6.40	
	µmol/l	13.4	10.2	16.6	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	6.41	4.87	7.95	
Immunoglobulin E	µmol/l	11.9	9.52	14.3	SIEMENS ATELICA CH
	µg/ml	5.69	4.55	6.83	
	KIU/l = IU/ml	599	359	839	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	KIU/l = IU/ml	599	479	719	SIEMENS ATELICA IM
Insulin	mU/l	27.1	20.3	33.9	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	mU/l	27.3	20.5	34.1	SIEMENS ATELICA IM
Luteinising Hormone (LH)	mU/ml	53.3	41.0	65.6	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	mU/ml	54.7	43.8	65.6	SIEMENS ATELICA IM
Oestradiol	pmol/l	2242	1390	3094	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	pg/ml	610	378	842	Enhanced (eE2)
	pmol/l	2360	1888	2832	SIEMENS ATELICA IM
	pg/ml	642	514	770	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5ml / 4 x 5ml Expiry: 2023-04-28

Analyte	unit	Target	Range		methods
			low	high	
Phenobarbital	µmol/l	119	95.2	143	SIEMENS DIMENSION EXL
	µg/ml	27.6	22.1	33.1	
	µmol/l	123	98.4	148	SIEMENS DIMENSION Vista
	µg/ml	28.5	22.8	34.2	
	µmol/l	116	92.8	139	SIEMENS ADVIA CHEMISTRY INSTRUMENTS
	µg/ml	26.9	21.5	32.3	
	µmol/l	150	110	190	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	34.8	25.4	44.2	
Phenytoin	µmol/l	118	94.4	142	SIEMENS ATELICA CH
	µg/ml	27.4	21.9	32.9	
	µmol/l	99.5	79.6	119	SIEMENS DIMENSION EXL
	µg/ml	25.1	20.1	30.1	
	µmol/l	93.1	74.5	112	SIEMENS DIMENSION Vista
	µg/ml	23.5	18.8	28.2	
	µmol/l	92.8	74.2	111	SIEMENS ADVIA CHEMISTRY INSTRUMENTS
	µg/ml	23.4	18.7	28.1	
Progesterone	µmol/l	124	96.7	151	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	31.3	24.4	38.2	
	µmol/l	96.7	77.4	116	SIEMENS ATELICA CH
	µg/ml	24.4	19.5	29.3	
	nmol/l	69.3	49.2	89.4	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/ml	21.7	15.4	28.0	
Prolactin	nmol/l	73.0	58.4	87.6	SIEMENS ATELICA IM
	ng/ml	22.8	18.2	27.4	
	µU/ml	845	634	1056	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
PSA Free	µU/ml	843	674	1012	SIEMENS ATELICA IM
	ng/ml = µg/l	18.2	13.7	22.7	SIEMENS DIMENSION Vista
	ng/ml = µg/l	21.7	16.3	27.1	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
PSA Total	ng/ml = µg/l	22.3	16.7	27.9	SIEMENS ATELICA IM
	ng/ml = µg/l	22.3	16.7	27.9	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/ml = µg/l	24.2	18.2	30.2	SIEMENS ATELICA IM
SHBG	nmol/l	37.1	29.7	44.5	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	nmol/l	37.8	30.2	45.4	SIEMENS ATELICA IM
	nmol/l	26.0	19.0	33.0	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic TSTII
Testosterone	ng/ml	7.49	5.47	9.51	
	ng/dl	749	547	951	
	nmol/l	24.9	19.9	29.9	SIEMENS ATELICA IM
	ng/ml	7.17	5.74	8.60	
	ng/dl	717	574	860	
	nmol/l	24.9	19.9	29.9	SIEMENS ATELICA IM
Theophylline	µmol/l	156	125	188	SIEMENS DIMENSION EXL
	µg/ml	28.2	22.6	33.8	
	µmol/l	151	121	181	SIEMENS DIMENSION Vista
	µg/ml	27.2	21.8	32.6	
	µmol/l	152	122	182	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	27.4	21.9	32.9	
	µmol/l	161	129	193	SIEMENS ATELICA CH
µg/ml	29.0	23.2	34.8		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1982EC Size: 12 x 5ml / 4 x 5ml Expiry: 2023-04-28					
Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	20.1	13.7	26.5	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µU/ml = mIU/l	19.4	13.2	25.6	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	19.3	15.4	23.2	SIEMENS ATELLICA IM
Total Beta hCG	mU/ml=IU/l	239	143	335	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	IU/ml	0.239	0.143	0.335	
	mU/ml=IU/l	243	194	292	SIEMENS ATELLICA IM
	IU/ml	0.243	0.194	0.292	
Total T3	nmol/l	7.15	5.36	8.94	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	ng/ml	4.65	3.49	5.81	
	ng/dl	465	349	581	
	nmol/l	7.22	5.42	9.02	SIEMENS ATELLICA IM
	ng/ml	4.70	3.53	5.87	
	ng/dl	470	353	587	
Total T4	nmol/l	174	122	226	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/dl	13.6	9.52	17.7	
	ng/ml	136	95.2	177	
	nmol/l	171	128	214	SIEMENS ATELLICA IM
	µg/dl	13.3	9.98	16.6	
	ng/ml	133	99.8	166	
Valproic Acid	µmol/l	905	724	1086	SIEMENS DIMENSION RxL/Max/Xpand
	µg/ml	131	105	157	
	µmol/l	899	719	1079	SIEMENS DIMENSION EXL
	µg/ml	130	104	156	
	µmol/l	955	764	1146	SIEMENS DIMENSION Vista
	µg/ml	138	110	166	
	µmol/l	863	690	1036	SIEMENS ADVIA CHEMISTRY INSTRUMENTS
	µg/ml	125	100	150	
	µmol/l	977	782	1172	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	141	113	169	
	µmol/l	921	737	1105	SIEMENS ATELLICA CH
µg/ml	133	106	160		
Vancomycin	µmol/l	9.57	7.66	11.5	SIEMENS DIMENSION RxL/Max/Xpand
	µg/ml	14.2	11.4	17.0	
	µmol/l	9.63	7.70	11.6	SIEMENS DIMENSION EXL
	µg/ml	14.3	11.4	17.2	
	µmol/l	9.30	7.44	11.2	SIEMENS DIMENSION Vista
	µg/ml	13.8	11.0	16.6	
	µmol/l	8.41	6.73	10.1	SIEMENS ADVIA CHEMISTRY INSTRUMENTS
	µg/ml	12.5	10.0	15.0	
	µmol/l	8.04	6.43	9.65	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	11.9	9.52	14.3	
	µmol/l	9.28	7.42	11.1	SIEMENS ATELLICA CH
µg/ml	13.8	11.0	16.6		
Vitamin B12	pmol/l	636	509	763	SIEMENS DIMENSION EXL
	pg/ml	862	690	1034	
	pmol/l	742	557	927	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	pg/ml	1005	754	1256	
	pmol/l	742	594	890	SIEMENS ATELLICA IM
	pg/ml	1005	804	1206	

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM - LEVEL 3
(IA PREMIUM 3)
Cat No. IA2640 / IA2633
Lot No. I982EC**

COMPONENT	UNITS	TARGET	RANGE	METHOD
Total Beta hCG	mU/ml = IU/l IU/ml	486 0.486	389 - 583 0.389 - 0.583	Siemens Stratus CS

EC REP

Radox Teoranta, Meenmore,
Dungloe, Donegal,
F94 TV06, Ireland

16 Feb 21 pl

ADDITIONAL VALUES FOR IMMUNOASSAY PREMIUM – LEVEL 3 (IA PREMIUM 3)

CAT. NO. IA2640 **GTIN:** 05055273203868 **SIZE:** 12 x 5 ml
CAT. NO. IA2633 **GTIN:** 05055273203837 **SIZE:** 4 x 5 ml
LOT NO. I982EC **EXPIRY:** 2023-04-28

Analyte	Unit	Target	Low	High	Method
17-OH-Progesterone	nmol/l	38.4	26.9	49.8	Snibe Maglumi
	ng/ml	12.7	8.89	16.5	
Alpha-fetoprotein	KIU/l=IU/ml	193	135	251	Snibe Maglumi
	ng/ml	234	163	304	
Androstenedione	nmol/l	22.8	16.0	29.6	Snibe Maglumi
	ng/ml	6.54	4.58	8.50	
Beta-2-microglobulin	µg/ml=mg/l	4.88	3.42	6.34	Snibe Maglumi
C-Peptide	nmol/l	3.84	2.69	5.00	Snibe Maglumi
	ng/ml	11.6	8.12	15.1	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	45.0	31.5	58.5	Snibe Maglumi
Cortisol	nmol/l	1161	814	1508	Snibe Maglumi
	µg/dl	41.8	29.3	54.3	
DHEA-S	nmol/l	19.6	13.8	25.5	Snibe Maglumi
	µg/dl	724	507	941	
Digoxin	nmol/l	5.28	3.69	6.86	Snibe Maglumi
	ng/ml	4.12	2.88	5.36	
Ferritin	ng/ml=µg/l	346	242	450	Snibe Maglumi
Free T3	pmol/l	35.6	24.9	46.4	Snibe Maglumi
	ng/dl	2.32	1.62	3.02	
	pg/ml	23.2	16.2	30.2	
Free T4	pmol/l	67.2	47.1	87.3	Snibe Maglumi
	ng/dl	5.24	3.67	6.81	
	pg/ml	52.4	36.7	68.1	
FSH	mU/ml	66.8	46.8	86.8	Snibe Maglumi
GH	µU/ml	63.1	44.1	82.0	Snibe Maglumi
	ng/ml	21.0	14.7	27.3	
Immunoglobulin E	KIU/l=IU/ml	540	378	702	Snibe Maglumi
Insulin	mU/l	43.7	30.6	56.8	Snibe Maglumi
	µU/ml	43.7	30.6	56.8	
Luteinising Hormone (LH)	mU/ml	75.1	52.6	97.6	Snibe Maglumi
Prolactin	µU/ml	904	633	1175	Snibe Maglumi
PSA Free	ng/ml=µg/l	17.7	12.4	23.0	Snibe Maglumi
PSA Total	ng/ml=µg/l	22.4	15.7	29.1	Snibe Maglumi
Testosterone	nmol/l	31.7	22.2	41.3	Snibe Maglumi
	ng/ml	9.13	6.39	11.9	
	ng/dl	913	639	1190	
Thyroid Stimulating Hormone	µU/ml=mIU/l	12.8	8.96	16.6	Snibe Maglumi
Total Beta hCG	mIU/ml=IU/l	613	429	797	Snibe Maglumi
	IU/ml	0.613	0.429	0.797	
Total T3	nmol/l	5.38	3.76	6.99	Snibe Maglumi
	ng/ml	3.50	2.45	4.55	
	ng/dl	350	245	455	
Total T4	nmol/l	181	127	235	Snibe Maglumi
	µg/dl	14.1	9.87	18.3	
	ng/ml	141	98.7	183	

EC REP
 Randox Teoranta, Meenmore,
 Dungloe, Donegal,
 F94 TV06, Ireland

16 Jun 21 bm