

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

CAT. NO. IA2640	GTIN: 05055273203868	SIZE: 12 x 5ml
CAT. NO. IA2633	GTIN: 05055273203837	SIZE: 4 x 5ml
LOT NO. 1979EC	EXPIRY: 2022-12-28	

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 5ml 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 5ml Tri-Level: 4 x 5ml

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.

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Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	28.4	21.3	35.5	Immunotech RIA
	ng/ml	9.40	7.05	11.8	
25-OH Vitamin D	nmol/l	138	104	173	Siemens Centaur XP/XPT/Classic
	nmol/l	78.4	58.8	98.0	Roche Vitamin D Total
	nmol/l	88.3	66.2	110	Abbott Architect
	nmol/l	107	80.3	134	Vitros ECi
	nmol/l	82.8	62.1	104	BioMerieux Vidas
	nmol/l	85.6	64.2	107	Beckman Dxl 600/800
	nmol/l	102	76.5	128	Roche Vitamin D Total II
	nmol/l	109	81.8	136	Diasorin Liaison XL
	nmol/l	125	93.5	156	Siemens Atellica IM
ACTH	pmol/l	35.1	26.3	43.9	Siemens Immulite 2000/2500
	pg/ml	160	120	200	
	pmol/l	24.2	18.2	30.3	Roche Cobas E411
	pg/ml	110	82.7	137	
	pmol/l	27.3	20.5	34.1	Roche Cobas 6000/8000
	pg/ml	124	93.2	155	
	pmol/l	34.2	25.7	42.8	Siemens Immulite 1000
pg/ml	155	117	193		
Aldosterone	pmol/l	631	473	789	Diasorin Liaison XL
	pg/ml	228	171	285	
Alpha-fetoprotein	KIU/l = IU/ml	210	168	252	BioMerieux Vidas
	ng/ml	254	203	305	
	KIU/l = IU/ml	199	159	239	Vitros ECi
	ng/ml	207	166	248	
	KIU/l = IU/ml	223	176	270	Siemens Centaur XP/XPT/Classic
	ng/ml	270	213	327	
	KIU/l = IU/ml	187	150	224	Siemens Immulite 2000/2500
	ng/ml	226	182	270	
	KIU/l = IU/ml	183	146	220	Abbott Architect
	ng/ml	221	177	265	
	KIU/l = IU/ml	174	139	209	Beckman Dxl800
	ng/ml	211	168	254	
	KIU/l = IU/ml	210	168	252	Roche Cobas 6000/8000
	ng/ml	254	203	305	
	KIU/l = IU/ml	209	167	251	Roche Cobas E411
ng/ml	253	202	304		
KIU/l = IU/ml	210	168	252	Siemens Atellica IM	
ng/ml	254	203	305		

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Analyte	unit	Target	Range		methods
			low	high	
Alpha-fetoprotein	KIU/l = IU/ml	201	161	241	Diasorin Liaison
	ng/ml	243	195	292	
	KIU/l = IU/ml	209	167	251	Diasorin Liaison XL
	ng/ml	253	202	304	
Amikacin	µmol/l	24.1	19.3	28.9	Gravimetric
	µg/ml	14.1	11.3	16.9	
Androstenedione	nmol/l	34.0	25.5	42.5	Siemens Immulite 2000
	ng/ml	9.76	7.32	12.2	
	nmol/l	24.8	18.6	31.0	Diasorin Liaison XL
	ng/ml	7.12	5.34	8.90	
Beta-2-microglobulin	µg/ml = mg/l	6.27	5.02	7.52	Siemens Immulite 2000/2500
	µg/ml = mg/l	7.17	5.74	8.60	Abbott Architect
	µg/ml = mg/l	6.94	5.55	8.33	Roche Cobas 6000/8000
	µg/ml = mg/l	5.99	4.79	7.19	Diasorin Liaison XL
C-Peptide	nmol/l	3.390	2.540	4.240	Siemens Immulite 2000/2500
	ng/ml	10.2	7.67	12.7	
	nmol/l	3.240	2.430	4.050	Roche Cobas 6000/8000
	ng/ml	9.78	7.34	12.2	
	nmol/l	2.950	2.210	3.690	Abbott Architect
	ng/ml	8.91	6.67	11.2	
	nmol/l	3.400	2.550	4.250	Diasorin Liaison
	ng/ml	10.3	7.70	12.8	
Carbamazepine	µmol/l	68.4	42.4	94.4	Siemens Centaur XP/XPT/Classic
	µg/ml	16.2	10.0	22.4	
	µmol/l	69.0	55.2	82.8	Abbott Architect
	µg/ml	16.3	13.0	19.6	
	µmol/l	69.2	55.4	83.0	Roche Cobas 6000/8000
	µg/ml	16.4	13.1	19.7	
	µmol/l	72.2	57.8	86.6	Gravimetric
	µg/ml	17.1	13.7	20.5	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	62.3	49.8	74.8	BioMerieux Vidas
	ng/ml = µg/l	82.0	65.6	98.4	Siemens Immulite 1000
	ng/ml = µg/l	63.1	50.5	75.7	Vitros Eci
	ng/ml = µg/l	64.1	51.3	76.9	Beckman Access
	ng/ml = µg/l	64.1	44.2	84.0	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	84.3	67.4	101	Siemens Immulite 2000/2500
	ng/ml = µg/l	72.1	57.7	86.5	Abbott Architect
	ng/ml = µg/l	58.2	46.6	69.9	Diasorin Liaison
	ng/ml = µg/l	57.9	46.3	69.5	Beckman DxI800
	ng/ml = µg/l	50.5	40.4	60.6	Roche Cobas 6000/8000
	ng/ml = µg/l	51.0	40.8	61.2	Roche Cobas E411
	ng/ml = µg/l	61.1	48.9	73.3	Siemens Atellica IM
Cortisol	nmol/l	913	685	1141	Siemens Immulite 1000
	µg/dl	32.9	24.7	41.1	

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Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	1069	802	1336	Roche Elecsys
	µg/dl	38.5	28.9	48.1	
	nmol/l	1082	747	1417	Siemens Centaur XP/XPT/Classic
	µg/dl	39.0	26.9	51.1	
	nmol/l	877	658	1096	Siemens Immulite 2000/2500
	µg/dl	31.6	23.7	39.5	
	nmol/l	869	652	1086	Vitros ECI
	µg/dl	31.3	23.5	39.1	
	nmol/l	818	614	1023	Abbott Architect
	µg/dl	29.4	22.1	36.7	
	nmol/l	922	692	1153	Beckman DxI800
	µg/dl	33.2	24.9	41.5	
	nmol/l	1105	829	1381	Roche Cobas 6000/8000
	µg/dl	39.8	29.8	49.8	
	nmol/l	1000	750	1250	Roche Cobas E411
	µg/dl	36.0	27.0	45.0	
	nmol/l	954	716	1193	Roche Cobas 4000/e411 Gen II
	µg/dl	34.3	25.8	42.8	
nmol/l	906	680	1133	Roche Cobas 6000/8000 Gen II	
µg/dl	32.6	24.5	40.7		
nmol/l	1171	878	1464	Siemens Atellica IM	
µg/dl	42.2	31.6	52.7		
nmol/l	969	727	1211	Diasorin Liaison	
µg/dl	34.9	26.2	43.6		
nmol/l	1131	848	1414	Diasorin Liaison XL	
µg/dl	40.7	30.5	50.9		
DHEA-S	µmol/l	17.6	14.1	21.1	Siemens Immulite 2000/2500
	µmol/l	26.2	21.0	31.4	Roche Elecsys
	µmol/l	19.2	15.4	23.0	Abbott Architect
	µmol/l	15.9	9.54	22.3	Siemens Centaur XP/XPT/Classic
	µmol/l	24.9	19.9	29.9	Roche Cobas E411
	µmol/l	25.0	20.0	30.0	Roche Cobas 6000/8000
	µmol/l	16.7	13.3	20.0	Siemens Atellica IM
	µmol/l	18.3	14.6	21.9	Diasorin Liaison XL
Digoxin	nmol/l	5.53	4.42	6.64	Siemens Immulite 2000/2500
	ng/ml	4.32	3.45	5.19	
	nmol/l	4.39	3.51	5.27	Abbott Architect
	ng/ml	3.43	2.74	4.12	
	nmol/l	4.88	3.90	5.86	Beckman DxI800
	ng/ml	3.81	3.05	4.57	
	nmol/l	4.98	3.98	5.98	Roche Cobas 6000/8000
	ng/ml	3.89	3.11	4.67	
Ethosuximide	nmol/l	5.12	4.10	6.14	Gravimetric
	ng/ml	4.00	3.20	4.80	
	µmol/l	493	395	592	Gravimetric
	µg/ml	70.0	56.0	83.9	

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Range					
Analyte	unit	Target	low	high	methods
Ferritin	ng/ml = µg/l	281	225	337	BioMerieux Vidas
	ng/ml = µg/l	350	280	420	Roche Elecsys
	ng/ml = µg/l	237	190	284	Beckman Access
	ng/ml = µg/l	212	170	254	Vitros ECI
	ng/ml = µg/l	323	252	394	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	293	234	352	Siemens Immulite 2000/2500
	ng/ml = µg/l	375	300	450	Abbott Architect
	ng/ml = µg/l	339	271	407	Roche Modular E170
	ng/ml = µg/l	237	190	284	Beckman DxI800
	ng/ml = µg/l	320	256	384	Siemens Atellica IM
	ng/ml = µg/l	346	277	415	Diasorin Liaison
	ng/ml = µg/l	341	273	409	Diasorin Liaison XL
Folate	nmol/l	23.5	17.9	29.1	Beckman Access
	ng/ml	10.4	7.89	12.9	
	nmol/l	17.4	13.2	21.6	Siemens Immulite 2000
	ng/ml	7.67	5.82	9.52	
	nmol/l	14.5	11.0	18.0	Vitros ECI
	ng/ml	6.39	4.85	7.93	
	nmol/l	20.2	15.4	25.0	Abbott Architect
	ng/ml	8.91	6.79	11.0	
	nmol/l	44.8	26.9	62.7	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	19.8	11.9	27.7	
	nmol/l	23.5	17.9	29.1	Beckman DxI800
	ng/ml	10.4	7.89	12.9	
	nmol/l	23.8	18.1	29.5	Roche Cobas 6000/8000 Folate III
ng/ml	10.5	7.98	13.0		
nmol/l	37.4	28.4	46.4	Siemens Atellica IM	
ng/ml	16.5	12.5	20.5		
Free T3	pmol/l	29.8	22.4	37.3	Roche Elecsys
	ng/dl	1.94	1.46	2.42	
	pg/ml	19.4	14.6	24.2	
	pmol/l	19.3	14.5	24.1	Beckman Access
	ng/dl	1.25	0.943	1.56	
	pg/ml	12.6	9.44	15.8	
	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	25.1	15.1	35.1	Siemens Centaur XP/XPT/Classic
	ng/dl	1.63	0.978	2.28	
	pg/ml	16.3	9.78	22.8	
	pmol/l	14.4	10.8	18.0	Siemens Immulite 2000/2500
	ng/dl	0.936	0.702	1.17	
	pg/ml	9.37	7.03	11.7	
pmol/l	23.5	17.6	29.4	Abbott Architect	
ng/dl	1.53	1.14	1.92		
pg/ml	15.3	11.5	19.1		

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Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	39.5	29.6	49.4	Diasorin Liaison
	ng/dl	2.57	1.92	3.22	
	pg/ml	25.7	19.3	32.1	
	pmol/l	18.6	14.0	23.3	Beckman Dxl800
	ng/dl	1.21	0.910	1.51	
	pg/ml	12.1	9.11	15.1	
	pmol/l	30.1	22.6	37.6	Roche Cobas E411
	ng/dl	1.96	1.47	2.45	
	pg/ml	19.6	14.7	24.5	
	pmol/l	30.5	22.9	38.1	Roche Cobas 6000/8000
	ng/dl	1.98	1.49	2.47	
	pg/ml	19.9	14.9	24.9	
	pmol/l	27.3	20.5	34.1	Siemens Atellica IM
	ng/dl	1.77	1.33	2.22	
	pg/ml	17.8	13.3	22.2	
pmol/l	40.2	30.2	50.3	Diasorin Liaison XL	
ng/dl	2.61	1.96	3.27		
pg/ml	26.2	19.7	32.7		
Free T4	pmol/l	77.1	57.8	96.4	Siemens Immulite 1000
	ng/dl	6.01	4.51	7.51	
	pg/ml	60.1	45.1	75.1	
	pmol/l	76.8	57.6	96.0	Roche Elecsys
	ng/dl	5.99	4.49	7.49	
	pg/ml	59.9	44.9	74.9	
	pmol/l	54.3	40.7	67.9	Beckman Access
	ng/dl	4.24	3.17	5.31	
	pg/ml	42.4	31.7	53.1	
	pmol/l	89.8	67.4	112	Vitros ECI
	ng/dl	7.00	5.26	8.74	
	pg/ml	70.0	52.6	87.4	
	pmol/l	54.6	41.0	68.3	Siemens Centaur XP/XPT/Classic
	ng/dl	4.26	3.20	5.32	
	pg/ml	42.6	32.0	53.2	
	pmol/l	76.8	57.6	96.0	Siemens Immulite 2000/2500
	ng/dl	5.99	4.49	7.49	
	pg/ml	59.9	44.9	74.9	
	pmol/l	49.8	37.4	62.3	Abbott Architect
	ng/dl	3.88	2.92	4.84	
	pg/ml	38.8	29.2	48.4	
pmol/l	101	75.8	126	Diasorin Liaison	
ng/dl	7.88	5.91	9.85		
pg/ml	78.8	59.1	98.5		
pmol/l	59.4	44.6	74.3	Beckman Dxl800	
ng/dl	4.63	3.48	5.78		
pg/ml	46.3	34.8	57.8		

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Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	76.8	57.6	96.0	Roche Cobas 6000/8000
	ng/dl	5.99	4.49	7.49	
	pg/ml	59.9	44.9	74.9	
	pmol/l	77.2	57.9	96.5	Roche Cobas E411
	ng/dl	6.02	4.52	7.52	
	pg/ml	60.2	45.2	75.2	
	pmol/l	83.9	62.9	105	Biomerieux Vidas FT4N Kit
	ng/dl	6.54	4.91	8.17	
	pg/ml	65.4	49.1	81.7	
	pmol/l	59.1	44.3	73.9	Siemens Centaur CP
	ng/dl	4.61	3.46	5.76	
	pg/ml	46.1	34.6	57.6	
	pmol/l	60.4	45.3	75.5	Siemens Atellica IM
	ng/dl	4.71	3.53	5.89	
	pg/ml	47.1	35.3	58.9	
FSH	pmol/l	124	93.0	155	Diasorin Liaison XL
	ng/dl	9.67	7.25	12.1	
	pg/ml	96.7	72.5	121	
	mU/ml	61.3	49.0	73.6	Siemens Immulite 1000
	mU/ml	78.4	62.7	94.1	BioMerieux Vidas
	mU/ml	61.9	49.5	74.3	Beckman Access
	mU/ml	56.8	45.4	68.2	Roche/BM Elecsys
	mU/ml	43.5	34.8	52.2	Vitros ECi
	mU/ml	80.0	62.4	97.6	Siemens Centaur XP/XPT/Classic
	mU/ml	59.5	47.6	71.4	Siemens Immulite 2000/2500
	mU/ml	51.4	41.1	61.7	Abbott Architect
	mU/ml	70.2	56.2	84.2	Diasorin Liaison
	mU/ml	62.5	50.0	75.0	Beckman Dxl800
	mU/ml	58.9	47.1	70.7	Roche Cobas E411
	mU/ml	55.6	44.5	66.7	Roche Cobas 6000/8000
mU/ml	82.6	66.1	99.1	Siemens Atellica IM	
mU/ml	84.9	67.9	102	Diasorin Liaison XL	
Gentamicin	µmol/l	11.7	9.38	14.1	Gravimetric
	µg/ml	5.60	4.48	6.74	
Growth Hormone (GH)	µU/ml	45.5	36.4	54.6	Siemens Immulite 1000
	ng/ml	15.2	12.1	18.3	
	µU/ml	49.3	39.4	59.2	Siemens Immulite 2000/2500
	ng/ml	16.4	13.1	19.7	
	µU/ml	41.2	33.0	49.4	Beckman Dxl800
	ng/ml	13.7	11.0	16.4	
	µU/ml	45.9	36.7	55.1	Diasorin Liaison
	ng/ml	15.3	12.2	18.4	
	µU/ml	45.9	36.7	55.1	Roche Cobas 6000/8000
	ng/ml	15.3	12.2	18.4	
µU/ml	44.6	35.7	53.5	Diasorin Liaison XL	
ng/ml	14.9	11.9	17.8		

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Analyte	unit	Target	Range		methods
			low	high	
Immunoglobulin E	KIU/l = IU/ml	509	407	611	Siemens Immulite 1000
	KIU/l = IU/ml	482	386	578	Pharmacia Unicap
	KIU/l = IU/ml	505	303	707	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	547	438	656	Siemens Immulite 2000/2500
	KIU/l = IU/ml	539	431	647	Abbott Architect
	KIU/l = IU/ml	541	433	649	Roche Cobas E411
	KIU/l = IU/ml	524	419	629	Roche Cobas 6000/8000
	KIU/l = IU/ml	522	417	626	Siemens Atellica IM
Insulin	mU/l	28.7	21.5	35.9	Siemens Centaur XP/XPT/Classic
	µU/ml	28.7	21.5	35.9	
	mU/l	25.3	19.0	31.6	Abbott Architect
	µU/ml	25.3	19.0	31.6	
	mU/l	33.1	24.8	41.4	Roche Cobas E411
	µU/ml	33.1	24.8	41.4	
	mU/l	32.3	24.2	40.4	Roche Cobas 6000/8000
	µU/ml	32.3	24.2	40.4	
	mU/l	25.5	19.1	31.9	Beckman Dxl 600/800
	µU/ml	25.5	19.1	31.9	
	mU/l	28.9	21.7	36.1	Siemens Atellica IM
	µU/ml	28.9	21.7	36.1	
	mU/l	34.8	26.1	43.5	Diasorin Liaison
	µU/ml	34.8	26.1	43.5	
mU/l	39.8	29.9	49.8	Diasorin Liaison XL	
µU/ml	39.8	29.9	49.8		
Luteinising Hormone (LH)	mU/ml	35.7	28.6	42.8	Beckman Access
	mU/ml	50.9	40.7	61.1	BioMerieux Vidas
	mU/ml	76.3	61.0	91.6	Siemens Immulite 1000
	mU/ml	58.8	47.0	70.6	Vitros ECi
	mU/ml	50.1	38.6	61.6	Siemens Centaur XP/XPT/Classic
	mU/ml	69.2	55.4	83.0	Siemens Immulite 2000
	mU/ml	42.1	33.7	50.5	Abbott Architect
	mU/ml	65.2	52.2	78.2	Diasorin Liaison
	mU/ml	35.0	28.0	42.0	Beckman Dxl800
	mU/ml	53.8	43.0	64.6	Roche Cobas E411
	mU/ml	55.4	44.3	66.5	Roche Cobas 6000/8000
	mU/ml	50.9	40.7	61.1	Siemens Atellica IM
	mU/ml	70.5	56.4	84.6	Diasorin Liaison XL
Oestradiol	pmol/l	3181	2545	3817	BioMerieux Vidas
	pg/ml	865	692	1038	
	pmol/l	2657	2126	3188	Vitros ECi
	pg/ml	723	578	868	
	pmol/l	2646	2117	3175	Beckman Access
	pg/ml	720	576	864	
	pmol/l	2549	2039	3059	Siemens Immulite 2000/2500
	pg/ml	693	555	831	
pmol/l	1477	1182	1772	Abbott Architect	
pg/ml	402	322	482		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

		Range			
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	2399	1919	2879	Beckman DxI800
	pg/ml	653	522	784	
	pmol/l	1749	1399	2099	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	476	381	571	
	pmol/l	1738	1390	2086	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	473	378	568	
	pmol/l	2835	1758	3912	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	771	478	1064	
	pmol/l	1744	1395	2093	Roche Cobas 6000/8000 (Estradiol III)
	pg/ml	474	379	569	
	pmol/l	1755	1404	2106	Roche Elecsys (Estradiol III)
	pg/ml	477	382	572	
	pmol/l	1727	1382	2072	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	470	376	564	
Paracetamol	pmol/l	2941	2353	3529	Siemens Atellica IM
	pg/ml	800	640	960	
	pmol/l	1546	1237	1855	Diasorin Liaison
	pg/ml	421	336	505	
Phenobarbital	pmol/l	1431	1145	1717	Diasorin Liaison XL
	pg/ml	389	311	467	
	mmol/l	0.484	0.387	0.581	Roche Cobas 6000/8000
	mg/l	73.2	58.6	87.8	
Phenytoin	mmol/l	0.529	0.420	0.630	Gravimetric
	mg/l	80.0	63.5	95.3	
	µmol/l	121	96.8	145	Abbott Architect
	µg/ml	28.1	22.5	33.7	
Phenytoin	µmol/l	120	96.0	144	Siemens Immulite 2000/2500
	µg/ml	27.8	22.3	33.3	
	µmol/l	122	97.6	146	Beckman AU400/600/640/2700/5400
	µg/ml	28.3	22.6	34.0	
	µmol/l	121	96.6	145	Gravimetric
	µg/ml	28.0	22.4	33.6	
Phenytoin	µmol/l	92.8	74.2	111	Abbott Architect
	µg/ml	23.4	18.7	28.1	
	µmol/l	88.3	70.6	106	Beckman DxC
	µg/ml	22.3	17.8	26.8	
	µmol/l	93.1	74.5	112	Roche Cobas 6000/8000
	µg/ml	23.5	18.8	28.2	
Primidone	µmol/l	99.8	79.8	120	Gravimetric
	µg/ml	25.2	20.1	30.3	
Progesterone	µmol/l	32.7	26.2	39.2	Gravimetric
	µg/ml	7.14	5.72	8.56	
Progesterone	nmol/l	97.9	78.3	117	Beckman Access Prog Cal 33555
	ng/ml	30.6	24.5	36.7	
	nmol/l	77.2	61.8	92.6	Siemens Immulite 1000
	ng/ml	24.2	19.3	29.1	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	160	128	192	BioMerieux Vidas
	ng/ml	50.1	40.1	60.1	
	nmol/l	109	87.2	131	Roche Elecsys (Prog. II)
	ng/ml	34.1	27.3	40.9	
	nmol/l	102	81.6	122	Vitros ECI
	ng/ml	31.9	25.5	38.3	
	nmol/l	71.9	51.0	92.8	Siemens Centaur XP/XPT/Classic
	ng/ml	22.5	16.0	29.0	
	nmol/l	61.7	49.4	74.0	Siemens Immulite 2000/2500
	ng/ml	19.3	15.5	23.1	
	nmol/l	90.3	72.2	108	Abbott Architect
	ng/ml	28.3	22.6	34.0	
	nmol/l	107	85.6	128	Beckman Dxl Prog Cal 33555
	ng/ml	33.5	26.8	40.2	
	nmol/l	83.6	66.9	100	Diasorin Liaison
	ng/ml	26.2	20.9	31.5	
	nmol/l	102	81.6	122	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	31.9	25.5	38.3	
	nmol/l	103	82.4	124	Roche Cobas 6000/8000 (Prog. II)
	ng/ml	32.2	25.8	38.6	
nmol/l	85.9	68.7	103	Beckman Dxl Prog DE Cal A80773	
ng/ml	26.9	21.5	32.3		
nmol/l	100	80.0	120	Roche Cobas 6000/8000 (Prog. III)	
ng/ml	31.3	25.0	37.6		
nmol/l	102	81.6	122	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	31.9	25.5	38.3		
nmol/l	80.6	64.5	96.7	Siemens Atellica IM	
ng/ml	25.2	20.2	30.3		
nmol/l	89.1	71.3	107	Diasorin Liaison XL	
ng/ml	27.9	22.3	33.5		
Prolactin	µU/ml	870	696	1044	Beckman Access
	µU/ml	1399	1119	1679	BioMerieux Vidas
	µU/ml	1032	826	1238	Siemens Immulite 1000
	µU/ml	919	735	1103	Vitros ECI
	µU/ml	926	695	1157	Siemens Centaur XP/XPT/Classic
	µU/ml	936	749	1123	Siemens Immulite 2000/2500
	µU/ml	1083	866	1300	Abbott Architect
	µU/ml	1118	894	1342	Diasorin Liaison
	µU/ml	874	699	1049	Beckman Dxl800
	µU/ml	1033	826	1240	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	1074	859	1289	Roche Cobas E411
	µU/ml	1022	818	1226	Roche Cobas 6000/8000
	µU/ml	1054	843	1265	Abbott Architect restandardised
	µU/ml	923	738	1107	Siemens Atellica IM
µU/ml	1101	881	1321	Diasorin Liaison XL	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	19.5	14.6	24.4	Siemens Immulite 2000/2500
	ng/ml = µg/l	25.3	19.0	31.6	Abbott Architect
	ng/ml = µg/l	18.6	14.0	23.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	12.2	9.15	15.3	Diasorin Liaison
	ng/ml = µg/l	25.2	18.9	31.5	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	16.9	12.7	21.1	Roche Cobas E411
	ng/ml = µg/l	16.6	12.5	20.8	Roche Cobas 6000/8000
	ng/ml = µg/l	20.5	15.4	25.6	Siemens Atellica IM
PSA Total	ng/ml = µg/l	14.5	10.9	18.1	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	29.0	21.8	36.3	Roche Elecsys
	ng/ml = µg/l	34.8	26.1	43.5	Beckman Access standardised to Hybritech
	ng/ml = µg/l	26.6	20.0	33.3	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	29.3	22.0	36.6	bioMerieux VIDAS TPSA
	ng/ml = µg/l	14.8	11.1	18.5	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	22.0	16.5	27.5	Abbott Architect
	ng/ml = µg/l	29.7	22.3	37.1	Vitros ECI
	ng/ml = µg/l	18.6	14.0	23.3	Diasorin Liaison
	ng/ml = µg/l	33.4	25.1	41.8	Beckman Dxl standardised to Hybritech
	ng/ml = µg/l	26.6	20.0	33.3	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	32.4	24.3	40.5	Roche Cobas E411
	ng/ml = µg/l	30.8	23.1	38.5	Roche Cobas 6000/8000
	ng/ml = µg/l	29.5	22.1	36.9	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	27.7	20.8	34.6	Siemens Centaur CP
	Salicylate	mmol/l	2.88	2.30	3.46
mg/dl		39.7	31.7	47.7	
SHBG	nmol/l	35.8	28.6	43.0	Siemens Immulite 2000/2500
	nmol/l	32.0	25.6	38.4	Abbott Architect
	nmol/l	37.1	29.7	44.5	Roche Cobas E411
	nmol/l	35.9	28.7	43.1	Roche Cobas 6000/8000
	nmol/l	32.7	26.2	39.2	Beckman Dxl800
	nmol/l	34.5	27.6	41.3	Siemens Atellica IM
T Uptake	%U	41.4	33.9	48.9	Siemens Immulite 2000
Testosterone	nmol/l	46.8	37.4	56.2	Vitros ECI
	ng/ml	13.5	10.8	16.2	
	ng/dl	1348	1077	1619	
	nmol/l	25.2	18.4	32.0	Siemens Centaur XP/XPT/Classic
	ng/ml	7.26	5.30	9.22	
	ng/dl	726	530	922	
	nmol/l	37.2	29.8	44.6	Siemens Immulite 2000/2500
	ng/ml	10.7	8.58	12.8	
	ng/dl	1071	858	1284	
	nmol/l	30.2	24.2	36.2	Abbott Architect
ng/ml	8.70	6.97	10.4		
ng/dl	870	697	1043		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	28.7	23.0	34.4	Beckman Access
	ng/ml	8.27	6.62	9.92	
	ng/dl	827	662	992	
	nmol/l	25.1	20.1	30.1	Beckman Dxl800
	ng/ml	7.23	5.79	8.67	
	ng/dl	723	579	867	
	nmol/l	32.3	25.8	38.8	Roche Elecsys Test II
	ng/ml	9.30	7.43	11.2	
	ng/dl	930	743	1117	
	nmol/l	31.5	25.2	37.8	Roche Cobas 4000/e411 Test II
	ng/ml	9.07	7.26	10.9	
	ng/dl	907	726	1088	
	nmol/l	31.5	25.2	37.8	Roche Cobas 6000 Test 2
	ng/ml	9.07	7.26	10.9	
	ng/dl	907	726	1088	
	nmol/l	30.7	24.6	36.8	Abbott Architect 2nd Generation
	ng/ml	8.84	7.08	10.6	
	ng/dl	884	708	1060	
	nmol/l	28.1	22.5	33.7	BioMerieux Vidas Testosterone II
	ng/ml	8.09	6.48	9.70	
ng/dl	809	648	970		
nmol/l	25.9	18.9	32.9	Siemens Centaur TST II	
ng/ml	7.46	5.45	9.47		
ng/dl	746	545	947		
nmol/l	25.1	20.1	30.1	Siemens Atellica IM	
ng/ml	7.23	5.79	8.67		
ng/dl	723	579	867		
nmol/l	16.3	13.0	19.6	Diasorin Liaison	
ng/ml	4.69	3.74	5.64		
ng/dl	469	374	564		
nmol/l	13.3	10.6	16.0	Diasorin Liaison XL	
ng/ml	3.83	3.05	4.61		
ng/dl	383	305	461		
Theophylline	µmol/l	158	126	190	Beckman DxC
	µg/ml	28.5	22.7	34.3	
	µmol/l	153	122	184	Roche Cobas 6000/8000
	µg/ml	27.6	22.0	33.2	
	µmol/l	166	133	200	
µg/ml	30.0	24.0	36.0	Gravimetric	
Thyroglobulin	ng/ml	36.5	27.4	45.6	Siemens Immulite 2000
	ng/ml	59.6	44.7	74.5	Beckman Access
	ng/ml	64.0	48.0	80.0	Roche Cobas E411
	ng/ml	62.6	47.0	78.3	Roche Cobas 6000/8000
	ng/ml	60.9	45.7	76.1	Roche Cobas 6000 TGII
	ng/ml	30.8	23.1	38.5	Diasorin Liaison XL

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	21.9	17.5	26.3	bioMerieux VIDAS TSH
	µU/ml = mIU/l	21.5	17.2	25.8	Siemens Immulite 1000
	µU/ml = mIU/l	22.6	18.1	27.1	Roche Elecsys
	µU/ml = mIU/l	21.4	17.1	25.7	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	31.4	25.1	37.7	Vitros ECI
	µU/ml = mIU/l	24.5	16.7	32.3	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	22.7	18.2	27.2	Siemens Immulite 2000/2500
	µU/ml = mIU/l	19.4	15.5	23.3	Abbott Architect
	µU/ml = mIU/l	27.3	21.8	32.8	Diasorin Liaison
	µU/ml = mIU/l	22.0	17.6	26.4	Beckman Access Fast TSH
	µU/ml = mIU/l	22.6	18.1	27.1	Roche Cobas E411
	µU/ml = mIU/l	22.8	18.2	27.4	Roche Cobas 6000/8000
	µU/ml = mIU/l	21.0	16.8	25.2	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	24.6	16.7	32.5	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	20.7	16.6	24.8	Beckman Dxl 600/800 Access (3rd IS)
µU/ml = mIU/l	22.9	18.3	27.5	Siemens Atellica IM	
µU/ml = mIU/l	29.2	23.4	35.0	Diasorin Liaison XL	
Tobramycin	µmol/l	10.3	8.21	12.3	Gravimetric
	µg/ml	4.80	3.84	5.76	
Total Beta hCG	mU/ml=IU/l	541	433	649	BioMerieux Vidas
	IU/ml	0.541	0.433	0.649	
	mU/ml=IU/l	619	495	743	Siemens Immulite 1000
	IU/ml	0.619	0.495	0.743	
	mU/ml=IU/l	385	308	462	Roche Cobas Core EIA
	IU/ml	0.385	0.308	0.462	
	mU/ml=IU/l	335	268	402	Beckman Access
	IU/ml	0.335	0.268	0.402	
	mU/ml=IU/l	532	426	638	Vitros ECI
	IU/ml	0.532	0.426	0.638	
	mU/ml=IU/l	313	188	438	Siemens Centaur XP/XPT/Classic
	IU/ml	0.313	0.188	0.438	
	mU/ml=IU/l	611	489	733	Siemens Immulite 2000
	IU/ml	0.611	0.489	0.733	
	mU/ml=IU/l	328	262	394	Abbott Architect
	IU/ml	0.328	0.262	0.394	
	mU/ml=IU/l	557	446	668	Siemens Dimension
	IU/ml	0.557	0.446	0.668	
	mU/ml=IU/l	347	278	416	Beckman Dxl800
	IU/ml	0.347	0.278	0.416	
mU/ml=IU/l	299	239	359	Roche STAT (Intact)	
IU/ml	0.299	0.239	0.359		
mU/ml=IU/l	388	310	466	Roche hCG+Beta	
IU/ml	0.388	0.310	0.466		
mU/ml=IU/l	330	264	396	Radiometer AQT90 Flex	
IU/ml	0.330	0.264	0.396		
mU/ml=IU/l	340	272	408	Beckman Access Total BhCG (5th IS)	
IU/ml	0.340	0.272	0.408		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	349	279	419	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.349	0.279	0.419	
	mU/ml=IU/l	317	254	380	Siemens Atellica IM
	IU/ml	0.320	0.250	0.380	
	mU/ml=IU/l	289	231	347	Diasorin Liaison
	IU/ml	0.290	0.230	0.350	
mU/ml=IU/l	333	266	400	Diasorin Liaison XL	
IU/ml	0.330	0.270	0.400		
Total T3	nmol/l	5.94	4.46	7.43	BioMerieux Vidas
	ng/ml	3.87	2.90	4.84	
	ng/dl	387	290	484	
	nmol/l	5.44	4.08	6.80	Beckman Access
	ng/ml	3.54	2.66	4.42	
	ng/dl	354	266	442	
	nmol/l	7.52	5.64	9.40	Siemens Centaur XP/XPT/Classic
	ng/ml	4.90	3.67	6.13	
	ng/dl	490	367	613	
	nmol/l	6.46	4.85	8.08	Siemens Immulite 2000/2500
	ng/ml	4.21	3.16	5.26	
	ng/dl	421	316	526	
	nmol/l	5.22	3.92	6.53	Abbott Architect
	ng/ml	3.40	2.55	4.25	
	ng/dl	340	255	425	
	nmol/l	7.84	5.88	9.80	Vitros ECi
	ng/ml	5.10	3.83	6.37	
	ng/dl	510	383	637	
	nmol/l	5.75	4.31	7.19	Diasorin Liaison
	ng/ml	3.74	2.81	4.67	
ng/dl	374	281	467		
nmol/l	6.68	5.01	8.35	Roche Cobas E411	
ng/ml	4.35	3.26	5.44		
ng/dl	435	326	544		
nmol/l	6.54	4.91	8.18	Roche Cobas 6000/8000	
ng/ml	4.26	3.20	5.32		
ng/dl	426	320	532		
nmol/l	4.69	3.52	5.86	Diasorin Liaison XL	
ng/ml	3.05	2.29	3.81		
ng/dl	305	229	381		
Total T4	nmol/l	209	157	261	Vitros ECi
	µg/dl	16.3	12.2	20.4	
	ng/ml	163	122	204	
	nmol/l	238	179	298	BioMerieux Vidas
	µg/dl	18.6	14.0	23.2	
	ng/ml	186	140	232	
	nmol/l	204	153	255	Siemens Immulite 1000
	µg/dl	15.9	11.9	19.9	
	ng/ml	159	119	199	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	210	147	273	Siemens Centaur XP/XPT/Classic
	µg/dl	16.4	11.5	21.3	
	ng/ml	164	115	213	
	nmol/l	198	149	248	Siemens Immulite 2000/2500
	µg/dl	15.4	11.6	19.2	
	ng/ml	154	116	192	
	nmol/l	194	146	243	Abbott Architect
	µg/dl	15.1	11.4	18.8	
	ng/ml	151	114	188	
	nmol/l	176	132	220	Diasorin Liaison
	µg/dl	13.7	10.3	17.1	
	ng/ml	137	103	171	
	nmol/l	218	164	273	Beckman Dxl800
	µg/dl	17.0	12.8	21.2	
	ng/ml	170	128	212	
nmol/l	184	138	230	Roche Cobas E411	
µg/dl	14.4	10.8	18.0		
ng/ml	144	108	180		
nmol/l	174	131	218	Roche Cobas 6000/8000	
µg/dl	13.6	10.2	17.0		
ng/ml	136	102	170		
nmol/l	175	131	219	Diasorin Liaison XL	
µg/dl	13.7	10.2	17.1		
ng/ml	137	102	171		
Valproic Acid	µmol/l	960	768	1152	Siemens Immulite 2000/2500
	µg/ml	139	111	167	
	µmol/l	955	764	1146	Siemens Centaur XP/XPT/Classic
	µg/ml	138	110	166	
	µmol/l	893	714	1072	Abbott Architect
	µg/ml	129	103	155	
	µmol/l	952	762	1142	Roche Cobas 6000/8000
	µg/ml	137	110	164	
µmol/l	1116	893	1339	Gravimetric	
µg/ml	161	129	193		
Vancomycin	µmol/l	915	732	1098	Siemens Atellica IM
	µg/ml	132	106	158	
	µmol/l	10.8	8.64	13.0	Abbott Architect
	µg/ml	16.0	12.8	19.2	
	µmol/l	9.54	7.63	11.4	Roche Cobas 6000/8000
µg/ml	14.2	11.3	17.1		
µmol/l	10.2	8.16	12.2	Beckman DxC	
µg/ml	15.2	12.1	18.3		
µmol/l	10.8	8.62	12.9	Gravimetric	
µg/ml	16.0	12.8	19.2		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	739	591	887	Beckman Access
	pg/ml	1001	801	1201	
	pmol/l	842	632	1052	Siemens Centaur XP/XPT/Classic
	pg/ml	1141	856	1426	
	pmol/l	642	514	770	Siemens Immulite 2000
	pg/ml	870	696	1044	
	pmol/l	768	614	922	Abbott Architect
	pg/ml	1041	832	1250	
	pmol/l	654	523	785	Vitros Eci
	pg/ml	886	709	1063	
	pmol/l	739	591	887	Beckman Dxl800
	pg/ml	1001	801	1201	
	pmol/l	905	724	1086	Siemens Atellica IM
	pg/ml	1226	981	1472	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633		Lot No. 1979EC		Size: 12 x 5ml / 4 x 5ml		Expiry: 2022-12-28	
Analyte	unit	Target	Range		methods		
			low	high			
25-OH Vitamin D	nmol/l	138	104	172	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	nmol/l	125	93.8	156	SIEMENS ATELLICA IM		
Alpha-fetoprotein	KIU/l = IU/ml	223	176	270	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	270	213	327			
	KIU/l = IU/ml	210	168	252	SIEMENS ATELLICA IM		
	ng/ml	254	203	305			
Amikacin	µmol/l	25.6	20.5	30.7	EMIT		
	µg/ml	15.0	12.0	18.0			
Beta-2-microglobulin	µg/ml = mg/l	7.49	5.99	8.99	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml = mg/l	7.44	5.95	8.93	SIEMENS ATELLICA CH		
C-Peptide	nmol/l	2.53	1.90	3.16	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	7.64	5.73	9.55			
	nmol/l	2.35	1.76	2.94	SIEMENS ATELLICA IM		
	ng/ml	7.09	5.32	8.86			
Carbamazepine	µmol/l	69.8	55.8	83.8	SIEMENS DIMENSION RxL/Max/Xpand		
	µg/ml	16.5	13.2	19.8			
	µmol/l	67.9	54.3	81.5	SIEMENS DIMENSION EXL /		
	µg/ml	16.1	12.9	19.3	SIEMENS ATELLICA CH		
	µmol/l	66.4	53.1	79.7	SIEMENS DIMENSION Vista		
	µg/ml	15.7	12.6	18.8			
	µmol/l	72.1	57.7	86.5	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml	17.0	13.6	20.4			
	µmol/l	68.4	42.4	94.4	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic*		
	µg/ml	16.2	10.0	22.4			
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	64.1	44.2	84.0	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml = µg/l	61.1	48.9	73.3	SIEMENS ATELLICA IM		
Cortisol	nmol/l	1082	747	1417	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/dl	39.0	26.9	51.1			
	nmol/l	1171	878	1464	SIEMENS ATELLICA IM		
	µg/dl	42.2	31.7	52.7			
DHEA-S	µmol/l	15.9	9.54	22.3	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µmol/l	16.7	13.4	20.0	SIEMENS ATELLICA IM		
Digoxin	nmol/l	4.84	3.87	5.81	SIEMENS DIMENSION RxL/Max/Xpand		
	ng/ml	3.78	3.02	4.54			
	nmol/l	5.05	4.04	6.06	SIEMENS DIMENSION EXL		
	ng/ml	3.94	3.15	4.73			
	nmol/l	5.14	4.11	6.17	SIEMENS DIMENSION Vista		
	ng/ml	4.01	3.21	4.81			
	nmol/l	4.91	3.93	5.89	SIEMENS ADVIA CHEMISTRY INSTRUMENTS /		
	ng/ml	3.83	3.06	4.60	SIEMENS ATELLICA CH		
	nmol/l	5.51	4.30	6.72	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic /		
	ng/ml	4.30	3.35	5.25	SIEMENS ATELLICA IM*		
Ferritin	ng/ml = µg/l	301	241	361	SIEMENS DIMENSION RxL/Max/Xpand		
	ng/ml = µg/l	298	238	358	SIEMENS DIMENSION EXL		
	ng/ml = µg/l	285	228	342	SIEMENS DIMENSION Vista		
	ng/ml = µg/l	323	252	394	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml = µg/l	320	256	384	SIEMENS ATELLICA IM		
Folate	nmol/l	14.6	11.1	18.1	SIEMENS DIMENSION EXL		
	ng/ml	6.44	4.89	7.99			
	nmol/l	13.9	10.6	17.2	SIEMENS DIMENSION Vista		
	ng/ml	6.13	4.66	7.60			
	nmol/l	44.8	26.9	62.7	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic*		
	ng/ml	19.8	11.9	27.7			
	nmol/l	37.4	28.4	46.4	SIEMENS ATELLICA IM		
	ng/ml	16.5	12.5	20.5			

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633		Lot No. 1979EC		Size: 12 x 5ml / 4 x 5ml		Expiry: 2022-12-28	
Analyte	unit	Target	Range		methods		
			low	high			
Free T3	pmol/l	25.1	15.1	35.1	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic*		
	ng/dl	1.63	0.978	2.28			
	pg/ml	16.3	9.78	22.8			
	pmol/l	27.3	20.5	34.1	SIEMENS ATELLICA IM*		
	ng/dl	1.77	1.33	2.21			
	pg/ml	17.8	13.4	22.2			
Free T4	pmol/l	54.6	41.0	68.2	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/dl	4.26	3.20	5.32			
	pg/ml	42.6	32.0	53.2			
	pmol/l	60.4	45.3	75.5	SIEMENS ATELLICA IM		
	ng/dl	4.71	3.53	5.89			
	pg/ml	47.1	35.3	58.9			
FSH	mU/ml	80.0	62.4	97.6	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	mU/ml	82.6	66.1	99.1		SIEMENS ATELLICA IM	
Gentamicin	µmol/l	10.7	8.56	12.8	SIEMENS DIMENSION RxL/Max/Xpand		
	µg/ml	5.11	4.09	6.13			
	µmol/l	10.6	8.48	12.7	SIEMENS DIMENSION EXL /		
	µg/ml	5.07	4.06	6.08		SIEMENS ATELLICA CH	
	µmol/l	11.4	9.12	13.7	SIEMENS DIMENSION Vista		
	µg/ml	5.45	4.36	6.54			
	µmol/l	10.3	8.24	12.4	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml	4.92	3.94	5.90			
	µmol/l	11.9	9.04	14.8	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/ml	5.69	4.32	7.06			
Immunoglobulin E	KIU/l = IU/ml	505	303	707	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	KIU/l = IU/ml	522	418	626		SIEMENS ATELLICA IM	
Insulin	mU/l	28.7	21.5	35.9	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	mU/l	28.9	21.7	36.1		SIEMENS ATELLICA IM	
Luteinising Hormone (LH)	mU/ml	50.1	38.6	61.6	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	mU/ml	50.9	40.7	61.1		SIEMENS ATELLICA IM	
Oestradiol	pmol/l	2835	1758	3912	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	pg/ml	771	478	1064		Enhanced (eE2)	
	pmol/l	2941	2353	3529	SIEMENS ATELLICA IM		
	pg/ml	800	640	960			
Phenobarbital	µmol/l	126	101	151	SIEMENS DIMENSION EXL /		
	µg/ml	29.2	23.4	35.0		SIEMENS ATELLICA CH	
	µmol/l	116	92.8	139	SIEMENS DIMENSION Vista		
	µg/ml	26.9	21.5	32.3			
	µmol/l	120	96.0	144	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml	27.8	22.2	33.4			
	µmol/l	157	115	199	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/ml	36.4	26.6	46.2			
	Phenytoin	µmol/l	102	81.6	122	SIEMENS DIMENSION EXL	
		µg/ml	25.8	20.6	31.0		
µmol/l		95.0	76.0	114	SIEMENS DIMENSION Vista		
µg/ml		24.0	19.2	28.8			
µmol/l		86.2	69.0	103	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
µg/ml		21.8	17.4	26.2			
µmol/l		117	91.3	143	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
µg/ml		29.5	23.0	36.0			
µmol/l		99.6	79.7	120	SIEMENS ATELLICA CH		
µg/ml		25.1	20.1	30.1			
Progesterone	nmol/l	71.9	51.0	92.8	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	22.5	16.0	29.0			
	nmol/l	80.6	64.5	96.7	SIEMENS ATELLICA IM		
	ng/ml	25.2	20.2	30.2			
Prolactin	µU/ml	926	695	1157	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µU/ml	923	738	1108		SIEMENS ATELLICA IM	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633		Lot No. 1979EC		Size: 12 x 5ml / 4 x 5ml		Expiry: 2022-12-28	
Analyte	unit	Target	Range		methods		
			low	high			
PSA Free	ng/ml = µg/l	18.4	13.8	23.0	SIEMENS DIMENSION Vista*		
	ng/ml = µg/l	18.6	14.0	23.2	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml = µg/l	20.5	15.4	25.6	SIEMENS ATELLICA IM*		
PSA Total	ng/ml = µg/l	26.6	20.0	33.2	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml = µg/l	28.0	21.0	35.0	SIEMENS ATELLICA IM		
SHBG	nmol/l	35.2	28.2	42.2	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	nmol/l	34.5	27.6	41.4	SIEMENS ATELLICA IM		
Testosterone	nmol/l	25.9	18.9	32.9	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	7.46	5.45	9.47	TSTII		
	ng/dl	746	545	947			
	nmol/l	25.1	20.1	30.1	SIEMENS ATELLICA IM		
	ng/ml	7.23	5.78	8.68			
Theophylline	ng/dl	723	578	868			
	µmol/l	166	133	199	SIEMENS DIMENSION EXL /		
	µg/ml	29.9	23.9	35.9	SIEMENS ATELLICA CH		
	µmol/l	160	128	192	SIEMENS DIMENSION Vista		
	µg/ml	28.8	23.0	34.6			
Thyroid Stimulating Hormone	µmol/l	160	128	192	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/ml	28.8	23.0	34.6			
	µU/ml = mIU/l	24.5	16.7	32.3	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µU/ml = mIU/l	24.6	16.7	32.5	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic TSH3-Ultra		
	µU/ml = mIU/l	22.9	18.3	27.5	SIEMENS ATELLICA IM		
Total Beta hCG	mU/ml=IU/l	313	188	438	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	IU/ml	0.313	0.188	0.438			
	mU/ml=IU/l	317	254	380	SIEMENS ATELLICA IM		
	IU/ml	0.317	0.254	0.380			
Total T3	nmol/l	7.52	5.64	9.40	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	ng/ml	4.90	3.68	6.12			
	ng/dl	490	368	612			
	nmol/l	7.51	5.63	9.39	SIEMENS ATELLICA IM		
	ng/ml	4.89	3.67	6.11			
Total T4	ng/dl	489	367	611			
	nmol/l	210	147	273	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic		
	µg/dl	16.4	11.5	21.3			
	ng/ml	164	115	213			
	nmol/l	226	170	282	SIEMENS ATELLICA IM		
Valproic Acid	µg/dl	17.6	13.2	22.0			
	ng/ml	176	132	220			
	µmol/l	914	731	1097	SIEMENS DIMENSION RxL/Max/Xpand*		
	µg/ml	132	106	158			
	µmol/l	904	723	1085	SIEMENS DIMENSION EXL*		
	µg/ml	130	104	156			
	µmol/l	920	736	1104	SIEMENS DIMENSION Vista*		
	µg/ml	133	106	160			
	µmol/l	982	786	1178	SIEMENS ADVIA CHEMISTRY INSTRUMENTS		
	µg/ml	142	114	170			
Valproic Acid	µmol/l	955	764	1146	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic*		
	µg/ml	138	110	166			
	µmol/l	915	732	1098	SIEMENS ATELLICA CH*		
	µg/ml	132	106	158			

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot No. 1979EC Size: 12 x 5ml / 4 x 5ml Expiry: 2022-12-28					
Analyte	unit	Target	Range		methods
			low	high	
Vancomycin	µmol/l	10.5	8.40	12.6	SIEMENS DIMENSION RxL/Max/Xpand
	µg/ml	15.6	12.5	18.7	
	µmol/l	10.5	8.40	12.6	SIEMENS DIMENSION EXL
	µg/ml	15.6	12.5	18.7	
	µmol/l	9.56	7.65	11.5	SIEMENS DIMENSION Vista
	µg/ml	14.2	11.4	17.0	
	µmol/l	8.55	6.84	10.3	SIEMENS ADVIA CHEMISTRY INSTRUMENTS
	µg/ml	12.7	10.2	15.2	
	µmol/l	8.64	6.91	10.4	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	µg/ml	12.8	10.2	15.4	
Vitamin B12	µmol/l	10.0	8.00	12.0	SIEMENS ATELLICA CH
	µg/ml	14.9	11.9	17.9	
	pmol/l	768	614	922	SIEMENS DIMENSION EXL
	pg/ml	1041	833	1249	
	pmol/l	842	632	1052	SIEMENS ADVIA CENTAUR CP/XP/XPT/Classic
	pg/ml	1141	856	1426	
	pmol/l	905	724	1086	SIEMENS ATELLICA IM
	pg/ml	1226	981	1471	

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM – LEVEL 3
(IA PREMIUM 3)
Cat No. IA2640 / IA2633
Lot No. I979EC**

COMPONENT	UNITS	TARGET	RANGE	METHOD
25-OH Vitamin D	nmol/l	78.6	59.0 – 98.2	TOSOH Series
Ferritin	ng/ml=µg/l	234	187 - 281	TOSOH Series
Free T3	pmol/l	35.7	26.8 – 44.6	TOSOH Series
	ng/dl	2.32	1.74 – 2.90	
	pg/ml	23.2	17.4 – 29.0	
Free T4	pmol/l	77.4	58.1 – 96.7	TOSOH Series
	ng/dl	6.04	4.53 – 7.55	
	pg/ml	60.4	45.3 – 75.5	
FSH	mU/ml	55.6	44.5 – 66.7	TOSOH Series
Immunoglobulin E	KIU/l=IU/ml	501	401 - 601	TOSOH Series
Insulin	mU/l	38.0	28.5 – 47.5	TOSOH Series
	µU/ml	38.0	28.5 – 47.5	
Lutenising Hormone (LH)	mU/ml	48.7	39.0 – 58.4	TOSOH Series
Oestradiol	pmol/l	2168	1734 - 2602	TOSOH Series
	pg/ml	590	472 - 708	

COMPONENT	UNITS	TARGET	RANGE	METHOD
Prolactin	μU/ml	1050	840 - 1260	TOSOH Series
PSA Free	ng/ml=μg/l	15.8	11.9 – 19.7	TOSOH Series
PSA Total	ng/ml=μg/l	20.0	15.0 – 25.0	TOSOH Series
Thyroid Stimulating Hormone	μU/ml=mIU/l	24.2	19.4 – 29.0	TOSOH Series
Total Beta hCG	mU/ml=IU/l IU/ml	526 0.526	421 - 631 0.421 – 0.631	TOSOH Series
Total T3	nmol/l ng/ml ng/dl	6.20 4.04 404	4.65 – 7.75 3.03 – 5.05 303 - 505	TOSOH Series
Total T4	nmol/l μg/ml ng/dl	194 15.1 151	146 - 242 11.3 – 18.9 113 - 189	TOSOH Series
Vitamin B12	pmol/l pg/ml	1062 1439	850 - 1274 1151 - 1727	TOSOH Series

29 Nov 19 pq