

IMMUNOASSAY PREMIUM PLUS - LEVEL 1 (IA PREMIUM PLUS I)

CAT. NO. IA3109	GTIN: 05055273207255	SIZE: 12 x 5 ml
CAT. NO. IA3112	GTIN: 05055273207286	SIZE: 4 x 5 ml
LOT NO. I937EC	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 Plus is supplied lyophilised.

1. 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.
2. Refer to the Control section of the individual analyser application.
3. Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

MATERIALS PROVIDED

Immunoassay Premium Plus - Level 1: 12 x 5 ml Tri-Level: 4 x 5 ml

MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus 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.

21 May 20 pl

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	2.46	1.85	3.08	Immunotech RIA
	ng/ml	0.814	0.612	1.02	
	nmol/l	2.19	1.64	2.74	DRG ELISA
	ng/ml	0.725	0.543	0.907	
	nmol/l	3.85	2.89	4.81	DIAsource RIA
	ng/ml	1.27	0.957	1.58	
nmol/l	2.07	1.55	2.59	IBL ELISA	
ng/ml	0.685	0.513	0.857		
nmol/l	2.73	2.05	3.41	LC/MS	
ng/ml	0.904	0.679	1.13		
25-OH Vitamin D	nmol/l	40.7	30.5	50.9	Diasorin Liaison
	nmol/l	41.1	30.8	51.4	Siemens Centaur XP/XPT/Classic
	nmol/l	22.0	16.5	27.5	Roche Vitamin D Total
	nmol/l	22.8	17.1	28.5	Abbott Architect
	nmol/l	112	84.0	140	Vitros ECi
	nmol/l	22.1	16.6	27.6	Tosoh Series
	nmol/l	27.7	20.8	34.6	BioMerieux Vidas
	nmol/l	38.7	29.0	48.4	Beckman Dxl 600/800
	nmol/l	18.3	13.7	22.9	Fujirebio Lumipulse G Series
	nmol/l	40.6	30.5	50.8	Beckman Access 25 OH Vitamin D Total
	nmol/l	22.7	17.0	28.4	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	41.8	31.4	52.3	Diasorin Liaison XL
nmol/l	22.7	17.0	28.4	Roche Vitamin D Total II	
nmol/l	27.6	20.7	34.5	Siemens Atellica IM	
ACTH	pmol/l	1.10	0.825	1.38	Siemens Immulite 2000/2500
	pg/ml	5.00	3.75	6.25	
	pmol/l	0.757	0.568	0.946	Roche Cobas E411
	pg/ml	3.44	2.58	4.30	
pmol/l	6.98	5.24	8.73	CIS IRMA	
pg/ml	31.7	23.8	39.6		
Alphafoetoprotein	KIU/l = IU/ml	8.56	6.85	10.3	Abbott AFP-EIA
	ng/ml	10.4	8.29	12.5	
	KIU/l = IU/ml	8.56	6.85	10.3	Abbott Architect
	ng/ml	10.4	8.29	12.5	
	KIU/l = IU/ml	8.06	6.45	9.67	BioMerieux Vidas
	ng/ml	9.75	7.80	11.7	
	KIU/l = IU/ml	10.3	8.14	12.5	Siemens Centaur XP/XPT/Classic
	ng/ml	12.5	9.88	15.1	
KIU/l = IU/ml	8.90	7.12	10.7	Siemens Immulite 2000/2500	
ng/ml	10.8	8.62	13.0		
KIU/l = IU/ml	9.00	7.20	10.8	Siemens Immulite 1000	
ng/ml	10.9	8.71	13.1		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	8.76	7.01	10.5	Beckman Dxl800
	ng/ml	10.6	8.48	12.7	
	KIU/l = IU/ml	9.42	7.54	11.3	Roche Elecsys
	ng/ml	11.4	9.12	13.7	
	KIU/l = IU/ml	10.2	8.16	12.2	Diasorin Liaison
	ng/ml	12.3	9.87	14.7	
	KIU/l = IU/ml	8.83	7.06	10.6	Beckman Access
	ng/ml	10.7	8.54	12.9	
	KIU/l = IU/ml	9.10	7.28	10.9	Tosoh Series
	ng/ml	11.0	8.81	13.2	
	KIU/l = IU/ml	9.38	7.50	11.3	Vitros Eci
	ng/ml	9.76	7.81	11.7	
	KIU/l = IU/ml	9.53	7.62	11.4	Roche Cobas 6000/8000
	ng/ml	11.5	9.22	13.8	
KIU/l = IU/ml	18.0	14.4	21.6	CIS IRMA	
ng/ml	21.8	17.4	26.2		
KIU/l = IU/ml	9.43	7.54	11.3	Roche Cobas E411	
ng/ml	11.4	9.12	13.7		
KIU/l = IU/ml	8.80	7.04	10.6	Fujirebio Lumipulse G Series	
ng/ml	10.6	8.52	12.7		
KIU/l = IU/ml	9.59	7.58	11.6	Siemens Centaur CP	
ng/ml	11.6	9.16	14.0		
KIU/l = IU/ml	10.5	8.40	12.6	Diasorin Liaison XL	
ng/ml	12.7	10.2	15.2		
Amikacin	µmol/l	5.96	4.77	7.15	Roche Cobas 6000/8000
	µg/ml	3.49	2.79	4.19	
	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
Androstenedione	nmol/l	5.17	3.88	6.46	Siemens Immulite 2000
	ng/ml	1.48	1.11	1.85	
	nmol/l	5.19	3.89	6.49	LC/MS
	ng/ml	1.49	1.12	1.86	
	nmol/l	5.24	3.93	6.55	Diasorin Liaison XL
	ng/ml	1.50	1.13	1.87	
Beta-2-microglobulin	µg/ml = mg/l	0.881	0.705	1.06	Abbott Architect
	µg/ml = mg/l	1.00	0.800	1.20	BioMerieux Vidas
	µg/ml = mg/l	0.819	0.655	0.983	Behring Nephelometer
	µg/ml = mg/l	0.900	0.720	1.08	Siemens Immulite 2000/2500
	µg/ml = mg/l	1.02	0.816	1.22	Siemens Immulite 1000
	µg/ml = mg/l	1.03	0.824	1.24	Tosoh Series
	µg/ml = mg/l	1.01	0.808	1.21	Roche Cobas 6000/8000
	µg/ml = mg/l	0.743	0.594	0.892	Fujirebio Lumipulse G Series
	µg/ml = mg/l	0.742	0.594	0.890	Diasorin Liaison XL
C-Peptide	nmol/l	0.533	0.400	0.666	Siemens Immulite 2000/2500
	ng/ml	1.61	1.21	2.01	
	nmol/l	0.759	0.569	0.949	Roche Elecsys
	ng/ml	2.29	1.72	2.86	

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Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	0.726	0.545	0.908	Roche Cobas 6000/8000
	ng/ml	2.19	1.65	2.73	
	nmol/l	0.492	0.369	0.615	Siemens Immulite 1000
	ng/ml	1.49	1.11	1.87	
	nmol/l	0.729	0.547	0.911	Diasorin Liaison
	ng/ml	2.20	1.65	2.75	
	nmol/l	0.716	0.537	0.895	Roche Cobas E411
	ng/ml	2.16	1.62	2.70	
	nmol/l	0.611	0.458	0.764	Abbott Architect
	ng/ml	1.84	1.38	2.30	
	nmol/l	0.496	0.347	0.645	Siemens Centaur XP/XPT/Classic
	ng/ml	1.50	1.05	1.95	
	nmol/l	0.674	0.506	0.843	Tosoh Series
	ng/ml	2.03	1.53	2.53	
CA 15-3	nmol/l	0.775	0.581	0.969	Diasorin Liaison XL
	ng/ml	2.34	1.75	2.93	
	nmol/l	0.474	0.356	0.593	Siemens Atellica IM
	ng/ml	1.43	1.07	1.79	
	U/ml	17.6	14.1	21.1	Abbott Architect
	U/ml	16.3	13.0	19.6	BioMerieux Vidas
	U/ml	16.8	11.1	22.5	Siemens Centaur XP/XPT/Classic
	U/ml	16.0	12.8	19.2	Siemens Immulite 2000/2500
	U/ml	18.6	14.9	22.3	Siemens Immulite 1000
	U/ml	7.30	5.84	8.76	Beckman Dxl800
	U/ml	16.7	13.4	20.0	Roche Elecsys
	U/ml	17.1	13.7	20.5	Diasorin Liaison
	U/ml	7.43	5.94	8.92	Beckman Access
	U/ml	17.9	14.3	21.5	Tosoh Series
	U/ml	15.5	12.4	18.6	Vitros ECi
	U/ml	16.8	13.4	20.2	Roche Cobas 6000/8000
U/ml	16.8	13.4	20.2	Roche Cobas E411	
U/ml	20.2	16.2	24.2	Fujirebio Lumipulse G Series	
U/ml	17.4	11.5	23.3	Siemens Centaur CP	
U/ml	15.7	12.6	18.8	Diasorin Liaison XL	
CA 19-9	U/ml	7.79	6.23	9.35	BioMerieux Vidas
	U/ml	10.9	7.19	14.6	Siemens Centaur XP/XPT/Classic
	U/ml	40.2	32.2	48.2	Siemens Immulite 2000/2500
	U/ml	44.9	35.9	53.9	Beckman Dxl800
	U/ml	15.6	12.5	18.7	Roche Elecsys
	U/ml	53.1	42.5	63.7	Beckman Access
	U/ml	12.4	9.92	14.9	Tosoh Series
	U/ml	18.9	15.1	22.7	Vitros ECi
	U/ml	24.5	19.6	29.4	Abbott Architect XR/XR2 kit
	U/ml	14.9	11.9	17.9	Roche Cobas 6000/8000
	U/ml	14.7	11.8	17.6	Roche Cobas E411

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
CA 19-9	U/ml	18.9	15.1	22.7	Fujirebio Lumipulse G Series
	U/ml	8.74	6.99	10.5	Mindray CL-2000i
	U/ml	37.0	29.6	44.4	Diasorin Liaison XL
CA125	U/ml	26.6	21.3	31.9	Abbott Architect
	U/ml	18.8	15.0	22.6	BioMerieux Vidas
	U/ml	22.2	14.7	29.7	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	22.4	14.8	30.0	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	19.7	15.8	23.6	Siemens Immulite 2000/2500
	U/ml	20.2	16.2	24.2	Siemens Immulite 1000
	U/ml	17.2	13.8	20.6	Beckman Dxl800
	U/ml	17.5	14.0	21.0	Roche Elecsys
	U/ml	23.0	18.4	27.6	Diasorin Liaison
	U/ml	17.9	14.3	21.5	Beckman Access
	U/ml	29.8	23.8	35.8	Tosoh Series
	U/ml	17.1	13.7	20.5	Vitros Eci
	U/ml	17.6	14.1	21.1	Roche Cobas E411
	U/ml	17.2	13.8	20.6	Roche Cobas 6000/8000
	U/ml	16.9	13.5	20.3	Fujirebio Lumipulse G Series
	U/ml	22.7	15.0	30.4	Siemens Centaur CP CA125 II kit
	U/ml	38.3	30.6	46.0	Mindray CL-2000i
U/ml	22.3	17.8	26.8	Diasorin Liaison XL	
Carbamazepine	µmol/l	15.0	12.0	18.0	Abbott Architect
	µg/ml	3.55	2.84	4.26	
	µmol/l	17.3	12.5	22.1	Siemens Centaur XP/XPT/Classic
	µg/ml	4.09	2.94	5.24	
	µmol/l	13.9	11.1	16.7	Siemens Dimension
	µg/ml	3.29	2.62	3.96	
	µmol/l	12.2	9.76	14.6	Siemens Immulite 2000/2500
	µg/ml	2.88	2.31	3.45	
	µmol/l	12.1	9.68	14.5	Siemens Immulite 1000
	µg/ml	2.86	2.29	3.43	
	µmol/l	15.4	12.3	18.5	Roche Integra
	µg/ml	3.64	2.91	4.37	
	µmol/l	14.1	11.3	16.9	Roche Cobas 6000/8000
	µg/ml	3.33	2.67	3.99	
	µmol/l	14.3	11.4	17.2	Beckman DxC
	µg/ml	3.38	2.69	4.07	
	µmol/l	16.0	12.8	19.2	Beckman AU400/600/640/2700/5400
µg/ml	3.78	3.03	4.53		
µmol/l	15.4	12.3	18.5	Gravimetric	
µg/ml	3.64	2.91	4.37		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	5.00	4.00	6.00	Abbott Architect
	ng/ml = µg/l	4.13	3.30	4.96	BioMerieux Vidas
	ng/ml = µg/l	4.82	3.18	6.46	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	4.80	3.84	5.76	CIS RIA Coated tube
	ng/ml = µg/l	5.21	4.17	6.25	Siemens Immulite 2000/2500

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	5.30	4.24	6.36	Siemens Immulite 1000
	ng/ml = µg/l	4.34	3.47	5.21	Beckman Dxl800
	ng/ml = µg/l	4.28	3.42	5.14	Roche Elecsys
	ng/ml = µg/l	4.27	3.42	5.12	Diasorin Liaison
	ng/ml = µg/l	4.52	3.62	5.42	Beckman Access
	ng/ml = µg/l	5.97	4.78	7.16	Tosoh Series
	ng/ml = µg/l	4.59	3.67	5.51	Vitros Eci
	ng/ml = µg/l	4.19	3.35	5.03	Roche Cobas 6000/8000
	ng/ml = µg/l	4.30	3.44	5.16	Roche Cobas E411
	ng/ml = µg/l	6.06	4.85	7.27	Fujirebio Lumipulse G Series
	ng/ml = µg/l	4.91	3.24	6.58	Siemens Centaur CP
	ng/ml = µg/l	3.66	2.93	4.39	Mindray CL-2000i
ng/ml = µg/l	4.38	3.50	5.26	Diasorin Liaison XL	
Cortisol	nmol/l	195	146	244	Abbott Architect
	µg/dl	7.02	5.26	8.78	
	nmol/l	124	93.0	155	BioMerieux Vidas
	µg/dl	4.46	3.35	5.57	
	nmol/l	172	114	230	Siemens Centaur XP/XPT/Classic
	µg/dl	6.19	4.09	8.29	
	nmol/l	165	124	206	CIS RIA
	µg/dl	5.94	4.46	7.42	
	nmol/l	185	139	231	Siemens Immulite 2000/2500
	µg/dl	6.66	5.00	8.32	
	nmol/l	174	131	218	Siemens Immulite 1000
	µg/dl	6.26	4.72	7.80	
	nmol/l	178	134	223	Beckman Dxl800
	µg/dl	6.41	4.82	8.00	
	nmol/l	176	132	220	Roche Elecsys
	µg/dl	6.34	4.75	7.93	
	nmol/l	208	156	260	Diasorin Liaison
	µg/dl	7.49	5.62	9.36	
	nmol/l	180	135	225	Beckman Access
	µg/dl	6.48	4.86	8.10	
	nmol/l	162	122	203	Tosoh Series
	µg/dl	5.83	4.39	7.27	
	nmol/l	129	96.8	161	Vitros Eci
	µg/dl	4.64	3.48	5.80	
	nmol/l	172	129	215	Roche Cobas 6000/8000
	µg/dl	6.19	4.64	7.74	
	nmol/l	185	139	231	Roche Cobas E411
	µg/dl	6.66	5.00	8.32	
nmol/l	187	123	251	Siemens Centaur CP	
µg/dl	6.73	4.44	9.02		
nmol/l	188	141	235	Roche Cobas 4000/e411 Gen II	
µg/dl	6.77	5.08	8.46		
nmol/l	170	128	213	Roche Cobas 6000/8000 Gen II	
µg/dl	6.12	4.61	7.63		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	175	131	219	Roche Elecsys Gen II
	µg/dl	6.30	4.72	7.88	
	nmol/l	187	140	234	Diasorin Liaison XL
	µg/dl	6.73	5.04	8.42	
DHEA-S	µmol/l	2.44	1.95	2.93	Abbott Architect
	µmol/l	1.90	1.52	2.28	Siemens Immulite 2000/2500
	µmol/l	2.02	1.62	2.42	Siemens Immulite 1000
	µmol/l	2.20	1.76	2.64	Beckman DxI800
	µmol/l	2.86	2.29	3.43	Roche Elecsys
	µmol/l	2.29	1.83	2.75	Beckman Access
	µmol/l	1.68	1.34	2.02	Diasorin Liaison
	µmol/l	2.47	1.61	3.33	Siemens Centaur XP/XPT/Classic
	µmol/l	3.05	2.44	3.66	Roche Cobas E411
	µmol/l	2.83	2.26	3.40	Roche Cobas 6000/8000
	µmol/l	1.99	1.59	2.39	Immunotech RIA
	µmol/l	1.79	1.43	2.15	Diasorin Liaison XL
Digoxin	nmol/l	0.554	0.443	0.665	Abbott Architect
	ng/ml	0.433	0.346	0.520	
	nmol/l	0.605	0.484	0.726	BioMerieux Vidas
	ng/ml	0.473	0.378	0.568	
	nmol/l	0.948	0.711	1.19	Siemens Centaur XP/XPT/Classic
	ng/ml	0.740	0.555	0.925	
	nmol/l	0.768	0.614	0.922	Siemens Dimension
	ng/ml	0.600	0.480	0.720	
	nmol/l	0.734	0.587	0.881	Beckman DxI800
	ng/ml	0.573	0.458	0.688	
	nmol/l	0.800	0.640	0.960	Roche Integra
	ng/ml	0.625	0.500	0.750	
	nmol/l	0.846	0.677	1.02	Vitros
	ng/ml	0.661	0.529	0.793	
	nmol/l	0.829	0.663	0.995	Roche Cobas 6000/8000
	ng/ml	0.647	0.518	0.776	
	nmol/l	0.976	0.781	1.17	Beckman AU400/600/640/2700/5400
	ng/ml	0.762	0.610	0.914	
nmol/l	0.953	0.762	1.14	Roche Cobas 4000/E411	
ng/ml	0.744	0.595	0.893		
nmol/l	0.896	0.717	1.08	Gravimetric	
ng/ml	0.700	0.560	0.840		
Ethosuximide	µmol/l	226	181	271	Gravimetric
	µg/ml	32.0	25.7	38.4	
Ferritin	ng/ml = µg/l	19.7	15.8	23.6	Abbott Architect
	ng/ml = µg/l	18.3	14.6	22.0	BioMerieux Vidas
	ng/ml = µg/l	16.6	12.5	20.7	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	20.7	16.6	24.8	Siemens Dimension
	ng/ml = µg/l	18.2	14.6	21.8	Siemens Immulite 2000/2500

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	17.5	14.0	21.0	Siemens Immulite 1000
	ng/ml = µg/l	12.8	10.2	15.4	Beckman Dxl800
	ng/ml = µg/l	20.2	16.2	24.2	Roche Elecsys
	ng/ml = µg/l	15.7	12.6	18.8	Diasorin Liaison
	ng/ml = µg/l	20.3	16.2	24.4	Roche Modular E170
	ng/ml = µg/l	13.1	10.5	15.7	Beckman Access
	ng/ml = µg/l	12.8	10.2	15.4	Tosoh Series
	ng/ml = µg/l	14.1	11.3	16.9	Vitros ECI
	ng/ml = µg/l	15.9	12.7	19.1	Immunotech IRMA
	ng/ml = µg/l	21.8	17.4	26.2	Roche Cobas E411
	ng/ml = µg/l	15.3	12.2	18.4	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	11.4	9.12	13.7	Fujirebio Lumipulse G Series
	ng/ml = µg/l	15.4	11.6	19.2	Siemens Centaur CP
	ng/ml = µg/l	15.3	12.2	18.4	Diasorin Liaison XL
Folate	nmol/l	3.76	2.86	4.66	Abbott Architect
	ng/ml	1.66	1.26	2.06	
	nmol/l	6.91	3.80	10.0	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	3.05	1.68	4.42	
	nmol/l	2.79	2.12	3.46	Siemens Immulite 2000
	ng/ml	1.23	0.935	1.53	
	nmol/l	3.73	2.83	4.63	Beckman Dxl800
	ng/ml	1.64	1.25	2.03	
	nmol/l	3.53	2.68	4.38	Beckman Access
	ng/ml	1.56	1.18	1.94	
Free T3	nmol/l	3.75	2.85	4.65	Vitros ECI
	ng/ml	1.65	1.26	2.04	
	nmol/l	2.44	1.85	3.03	Siemens Dimension
	ng/ml	1.08	0.816	1.34	
	pmol/l	2.55	1.91	3.19	Abbott Architect
	ng/dl	0.166	0.124	0.208	
	pg/ml	1.66	1.24	2.08	
	pmol/l	2.28	1.71	2.85	BioMerieux Vidas
	ng/dl	0.148	0.111	0.185	
	pg/ml	1.48	1.11	1.85	
	pmol/l	2.94	1.76	4.12	Siemens Centaur XP/XPT/Classic
	ng/dl	0.191	0.115	0.267	
	pg/ml	1.91	1.15	2.67	
	pmol/l	2.62	1.97	3.28	Siemens Immulite 2000/2500
ng/dl	0.170	0.128	0.212		
pg/ml	1.71	1.28	2.14		
pmol/l	2.63	1.97	3.29	Siemens Immulite 1000	
ng/dl	0.171	0.128	0.214		
pg/ml	1.71	1.28	2.14		
pmol/l	3.13	2.35	3.91	Beckman Dxl800	
ng/dl	0.203	0.153	0.253		
pg/ml	2.04	1.53	2.55		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	3.41	2.56	4.26	Roche Elecsys
	ng/dl	0.222	0.166	0.278	
	pg/ml	2.22	1.67	2.77	
	pmol/l	1.99	1.49	2.49	Diasorin Liaison
	ng/dl	0.129	0.097	0.161	
	pg/ml	1.30	0.970	1.63	
	pmol/l	3.12	2.34	3.90	Beckman Access
	ng/dl	0.203	0.152	0.254	
	pg/ml	2.03	1.52	2.54	
	pmol/l	4.97	3.73	6.21	Vitros ECI
	ng/dl	0.323	0.242	0.404	
	pg/ml	3.24	2.43	4.05	
	pmol/l	3.53	2.65	4.41	Roche Cobas E411
	ng/dl	0.229	0.172	0.286	
	pg/ml	2.30	1.73	2.87	
	pmol/l	3.31	2.48	4.14	Roche Cobas 6000/8000
	ng/dl	0.215	0.161	0.269	
	pg/ml	2.15	1.61	2.69	
	pmol/l	3.20	1.92	4.48	Siemens Centaur CP
	ng/dl	0.208	0.125	0.291	
	pg/ml	2.08	1.25	2.91	
pmol/l	2.68	2.01	3.35	Mindray CL-2000i	
ng/dl	0.174	0.131	0.217		
pg/ml	1.74	1.31	2.17		
pmol/l	2.18	1.64	2.73	Diasorin Liaison XL	
ng/dl	0.142	0.107	0.177		
pg/ml	1.42	1.07	1.77		
Free T4	pmol/l	8.97	6.73	11.2	Abbott Architect
	ng/dl	0.700	0.525	0.875	
	pg/ml	7.00	5.25	8.75	
	pmol/l	7.98	5.99	9.98	Siemens Centaur XP/XPT/Classic
	ng/dl	0.622	0.467	0.777	
	pg/ml	6.22	4.67	7.77	
	pmol/l	10.5	7.88	13.1	CIS RIA Coated tube
	ng/dl	0.819	0.615	1.02	
	pg/ml	8.19	6.15	10.2	
	pmol/l	12.8	9.60	16.0	Siemens Immulite 2000/2500
	ng/dl	0.998	0.749	1.25	
	pg/ml	9.98	7.49	12.5	
	pmol/l	12.3	9.23	15.4	Siemens Immulite 1000
	ng/dl	0.959	0.720	1.20	
	pg/ml	9.59	7.20	12.0	
	pmol/l	9.46	7.10	11.8	Beckman Dxl800
	ng/dl	0.738	0.554	0.922	
	pg/ml	7.38	5.54	9.22	
	pmol/l	12.0	9.00	15.0	Roche Elecsys
	ng/dl	0.936	0.702	1.17	
	pg/ml	9.36	7.02	11.7	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	11.6	8.70	14.5	Diasorin Liaison
	ng/dl	0.905	0.679	1.13	
	pg/ml	9.05	6.79	11.3	
	pmol/l	9.37	7.03	11.7	Beckman Access
	ng/dl	0.731	0.548	0.914	
	pg/ml	7.31	5.48	9.14	
	pmol/l	8.63	6.47	10.8	Tosoh Series
	ng/dl	0.673	0.505	0.841	
	pg/ml	6.73	5.05	8.41	
	pmol/l	13.1	9.83	16.4	Vitros ECI
	ng/dl	1.02	0.767	1.27	
	pg/ml	10.2	7.67	12.7	
	pmol/l	11.8	8.85	14.8	Roche Cobas 6000/8000
	ng/dl	0.920	0.690	1.15	
	pg/ml	9.20	6.90	11.5	
	pmol/l	10.0	7.50	12.5	Immunotech IRMA
	ng/dl	0.780	0.585	0.975	
	pg/ml	7.80	5.85	9.75	
	pmol/l	12.0	9.00	15.0	Roche Cobas E411
	ng/dl	0.936	0.702	1.17	
	pg/ml	9.36	7.02	11.7	
	pmol/l	9.30	6.98	11.6	Biomerieux Vidas FT4N Kit
	ng/dl	0.725	0.544	0.906	
	pg/ml	7.25	5.44	9.06	
pmol/l	8.62	6.47	10.8	Siemens Centaur CP	
ng/dl	0.672	0.505	0.839		
pg/ml	6.72	5.05	8.39		
pmol/l	8.85	6.64	11.1	Mindray CL-2000i	
ng/dl	0.690	0.518	0.862		
pg/ml	6.90	5.18	8.62		
pmol/l	11.3	8.48	14.1	Diasorin Liaison XL	
ng/dl	0.881	0.661	1.10		
pg/ml	8.81	6.61	11.0		
FSH	mU/ml	5.52	4.42	6.62	Abbott Architect
	mU/ml	6.78	5.42	8.14	BioMerieux Vidas
	mU/ml	8.67	6.07	11.3	Siemens Centaur XP/XPT/Classic
	mU/ml	6.81	5.45	8.17	Siemens Immulite 2000/2500
	mU/ml	6.83	5.46	8.20	Siemens Immulite 1000
	mU/ml	6.88	5.50	8.26	Beckman DxI800
	mU/ml	6.29	5.03	7.55	Roche/BM Elecsys
	mU/ml	7.83	6.26	9.40	Diasorin Liaison
	mU/ml	6.90	5.52	8.28	Beckman Access
	mU/ml	7.24	5.79	8.69	Tosoh Series
	mU/ml	5.23	4.18	6.28	Vitros ECI

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
FSH	mU/ml	6.44	5.15	7.73	Roche Cobas E411
	mU/ml	6.00	4.80	7.20	Roche Cobas 6000/8000
	mU/ml	5.11	4.09	6.13	Fujirebio Lumipulse G Series
	mU/ml	6.74	4.72	8.76	Siemens Centaur CP
	mU/ml	10.2	8.16	12.2	Diasorin Liaison XL
Gentamicin	µmol/l	4.39	3.16	5.62	Siemens Centaur XP/XPT/Classic
	µg/ml	2.10	1.51	2.69	
	µmol/l	3.87	3.10	4.64	Roche Cobas 6000/8000
	µg/ml	1.85	1.48	2.22	
	µmol/l	4.85	3.88	5.82	Gravimetric
Growth Hormone (GH)	µU/ml	4.89	3.91	5.87	Siemens Immulite 2000/2500
	ng/ml	1.63	1.30	1.96	
	µU/ml	4.88	3.90	5.86	Siemens Immulite 1000
	ng/ml	1.63	1.30	1.96	
	µU/ml	3.59	2.87	4.31	Beckman Dxl800
	ng/ml	1.20	0.956	1.44	
	µU/ml	3.64	2.91	4.37	Beckman Access
	ng/ml	1.21	0.969	1.45	
	µU/ml	4.55	3.64	5.46	Tosoh Series
	ng/ml	1.52	1.21	1.83	
	µU/ml	3.68	2.94	4.42	Diasorin Liaison
	ng/ml	1.23	0.979	1.48	
	µU/ml	4.52	3.62	5.42	Roche Cobas E411
	ng/ml	1.51	1.21	1.81	
	µU/ml	4.52	3.62	5.42	Roche Cobas 6000/8000
ng/ml	1.51	1.21	1.81		
Immunoglobulin E	KIU/l = IU/ml	232	186	278	Abbott Architect
	KIU/l = IU/ml	199	159	239	BioMerieux Vidas
	KIU/l = IU/ml	258	155	361	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	253	202	304	Siemens Immulite 2000/2500
	KIU/l = IU/ml	257	206	308	Siemens Immulite 1000
	KIU/l = IU/ml	217	174	260	Beckman Dxl800
	KIU/l = IU/ml	233	186	280	Roche Elecsys
	KIU/l = IU/ml	223	178	268	Pharmacia Unicap
	KIU/l = IU/ml	225	180	270	Tosoh Series
	KIU/l = IU/ml	246	197	295	Roche Cobas E411
	KIU/l = IU/ml	241	193	289	Roche Cobas 6000/8000
	KIU/l = IU/ml	201	161	241	Fujirebio Lumipulse G Series
	KIU/l = IU/ml	241	145	337	Siemens Centaur CP
Insulin	mU/l	1.51	1.13	1.89	Siemens Centaur XP/XPT/Classic
	µU/ml	1.51	1.13	1.89	
	mU/l	1.96	1.47	2.45	Roche Elecsys
	µU/ml	1.96	1.47	2.45	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	0.823	0.617	1.03	Beckman Access
	µU/ml	0.823	0.617	1.03	
	mU/l	1.29	0.968	1.61	Abbott Architect
	µU/ml	1.29	0.968	1.61	
	mU/l	3.85	2.89	4.81	Tosoh Series
	µU/ml	3.85	2.89	4.81	
	mU/l	1.97	1.48	2.46	Roche Cobas E411
	µU/ml	1.97	1.48	2.46	
	mU/l	0.780	0.585	0.975	Beckman Dxl 600/800
	µU/ml	0.780	0.585	0.975	
	mU/l	1.11	0.833	1.39	Diasorin Liaison
	µU/ml	1.11	0.833	1.39	
	mU/l	2.16	1.62	2.70	Roche Cobas 6000/8000
	µU/ml	2.16	1.62	2.70	
	mU/l	5.64	4.23	7.05	SNIBE Maglumi Analysers
	µU/ml	5.64	4.23	7.05	
	mU/l	1.72	1.29	2.15	Fujirebio Lumipulse G Series
	µU/ml	1.72	1.29	2.15	
mU/l	1.32	0.990	1.65	Siemens Centaur CP	
µU/ml	1.32	0.990	1.65		
mU/l	1.38	1.04	1.73	Siemens Atellica IM	
µU/ml	1.38	1.04	1.72		
Luteinising Hormone (LH)	mU/ml	2.37	1.90	2.84	Abbott Architect
	mU/ml	3.10	2.48	3.72	BioMerieux Vidas
	mU/ml	2.94	2.21	3.67	Siemens Centaur XP/XPT/Classic
	mU/ml	5.37	4.30	6.44	Siemens Immulite 2000
	mU/ml	5.65	4.52	6.78	Siemens Immulite 1000
	mU/ml	2.26	1.81	2.71	Beckman Dxl800
	mU/ml	3.79	3.03	4.55	Roche Elecsys
	mU/ml	3.94	3.15	4.73	Diasorin Liaison
	mU/ml	2.33	1.86	2.80	Beckman Access
	mU/ml	2.62	2.10	3.14	Tosoh Series
	mU/ml	6.16	4.93	7.39	Vitros ECI
	mU/ml	3.84	3.07	4.61	Roche Cobas E411
	mU/ml	3.80	3.04	4.56	Roche Cobas 6000/8000
	mU/ml	2.64	2.11	3.17	Fujirebio Lumipulse G Series
	mU/ml	2.72	2.04	3.40	Siemens Centaur CP
	mU/ml	3.72	2.98	4.46	Mindray CL-2000i
	mU/ml	3.84	3.07	4.61	Diasorin Liaison XL
	Oestradiol	pmol/l	172	138	206
pg/ml		46.8	37.5	56.1	
pmol/l		253	202	304	BioMerieux Vidas
pg/ml		68.8	54.9	82.7	
pmol/l		131	78.6	183	Siemens Centaur XP/XPT/Classic
pg/ml		35.6	21.4	49.8	
pmol/l	89.6	71.7	108	Siemens Immulite 1000	
pg/ml	24.4	19.5	29.3		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	120	96.0	144	Beckman DxI800
	pg/ml	32.6	26.1	39.1	
	pmol/l	175	140	210	Roche Elecsys (Estradiol II)
	pg/ml	47.6	38.1	57.1	
	pmol/l	125	100	150	Beckman Access
	pg/ml	34.0	27.2	40.8	
	pmol/l	74.7	59.8	89.6	Vitros ECI
	pg/ml	20.3	16.3	24.3	
	pmol/l	168	134	202	Roche Cobas 6000/8000 (Estradiol II)
	pg/ml	45.7	36.4	55.0	
	pmol/l	169	135	203	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	46.0	36.7	55.3	
	pmol/l	136	81.6	190	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	37.0	22.2	51.8	
	pmol/l	136	81.6	190	Siemens Centaur CP Enhanced (eE2)
	pg/ml	37.0	22.2	51.8	
	pmol/l	156	125	187	Fujirebio Lumipulse G Series
	pg/ml	42.4	34.0	50.8	
pmol/l	180	144	216	Roche Cobas 6000/8000 (Estradiol III)	
pg/ml	49.0	39.2	58.8		
pmol/l	171	137	205	Roche Elecsys (Estradiol III)	
pg/ml	46.5	37.3	55.7		
pmol/l	166	133	199	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	45.2	36.2	54.2		
pmol/l	118	94.4	142	Diasorin Liaison XL	
pg/ml	32.1	25.7	38.5		
Paracetamol	mmol/l	0.161	0.129	0.193	Abbott Architect
	mg/l	24.4	19.5	29.3	
	mmol/l	0.153	0.122	0.184	Roche Cobas 6000/8000
	mg/l	23.1	18.5	27.7	
mmol/l	0.166	0.130	0.200	Gravimetric	
mg/l	25.1	19.7	30.3		
Phenobarbital	µmol/l	33.7	27.0	40.4	Abbott Architect
	µg/ml	7.82	6.26	9.38	
	µmol/l	31.9	25.5	38.3	Roche Cobas 6000/8000
	µg/ml	7.40	5.92	8.88	
	µmol/l	34.7	27.8	41.6	Siemens Immulite 2000/2500
	µg/ml	8.05	6.45	9.65	
	µmol/l	30.4	24.3	36.5	Beckman AU400/600/640/2700/5400
	µg/ml	7.05	5.64	8.46	
	µmol/l	47.8	33.5	62.1	Siemens Centaur XP/XPT/Classic
	µg/ml	11.1	7.77	14.4	
µmol/l	34.5	27.6	41.4	Roche Integra	
µg/ml	8.00	6.40	9.60		
µmol/l	34.7	27.8	41.6	Siemens Immulite 1000	
µg/ml	8.05	6.45	9.65		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Phenobarbital	µmol/l	34.5	27.6	41.4	Gravimetric
	µg/ml	8.00	6.40	9.60	
Phenytoin	µmol/l	18.8	15.0	22.6	Abbott Architect
	µg/ml	4.75	3.79	5.71	
	µmol/l	18.9	14.2	23.6	Siemens Centaur XP/XPT/Classic
	µg/ml	4.77	3.58	5.96	
	µmol/l	18.6	14.9	22.3	Siemens Dimension
	µg/ml	4.70	3.76	5.64	
	µmol/l	17.9	14.3	21.5	Siemens Immulite 2000/2500
	µg/ml	4.52	3.61	5.43	
	µmol/l	20.2	16.2	24.2	Siemens Immulite 1000
	µg/ml	5.10	4.09	6.11	
	µmol/l	18.4	14.7	22.1	Roche Integra
	µg/ml	4.65	3.71	5.59	
	µmol/l	17.9	14.3	21.5	Roche Cobas 6000/8000
	µg/ml	4.52	3.61	5.43	
Primidone	µmol/l	12.3	9.84	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	
Progesterone	nmol/l	3.04	2.43	3.65	Abbott Architect
	ng/ml	0.952	0.761	1.14	
	nmol/l	4.55	3.64	5.46	BioMerieux Vidas
	ng/ml	1.42	1.14	1.70	
	nmol/l	2.67	1.47	3.87	Siemens Centaur XP/XPT/Classic
	ng/ml	0.836	0.460	1.21	
	nmol/l	2.88	2.30	3.46	Siemens Immulite 2000/2500
	ng/ml	0.901	0.720	1.08	
	nmol/l	2.99	2.39	3.59	Siemens Immulite 1000
	ng/ml	0.936	0.748	1.12	
	nmol/l	2.71	2.17	3.25	Beckman Dxl Prog Cal 33555
	ng/ml	0.848	0.679	1.02	
	nmol/l	3.37	2.70	4.04	Roche Elecsys (Prog. II)
	ng/ml	1.05	0.845	1.26	
	nmol/l	2.19	1.75	2.63	Tosoh Series
	ng/ml	0.685	0.548	0.822	
	nmol/l	2.51	2.01	3.01	Vitros ECi
	ng/ml	0.786	0.629	0.943	
nmol/l	3.55	2.84	4.26	Roche Cobas 4000/e411 (Prog. II)	
ng/ml	1.11	0.889	1.33		
nmol/l	3.66	2.93	4.39	Roche Cobas 6000/8000 (Prog. II)	
ng/ml	1.15	0.917	1.38		
nmol/l	2.39	1.91	2.87	Diasorin Liaison	
ng/ml	0.748	0.598	0.898		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	1.87	1.50	2.24	Beckman Dxl Prog DE Cal A80773
	ng/ml	0.585	0.470	0.700	
	nmol/l	3.19	1.75	4.63	Siemens Centaur CP
	ng/ml	0.998	0.549	1.45	
	nmol/l	2.33	1.86	2.80	Fujirebio Lumipulse G Series
	ng/ml	0.729	0.582	0.876	
	nmol/l	3.53	2.82	4.24	Roche Cobas 6000/8000 (Prog. III)
	ng/ml	1.10	0.883	1.32	
	nmol/l	3.77	3.02	4.52	Roche Elecsys (Prog. III)
	ng/ml	1.18	0.945	1.42	
	nmol/l	3.54	2.83	4.25	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	1.11	0.886	1.33	
	nmol/l	1.95	1.56	2.34	Diasorin Liaison XL
	ng/ml	0.610	0.488	0.732	
Prolactin	µU/ml	133	106	160	Abbott Architect
	µU/ml	140	112	168	BioMerieux Vidas
	µU/ml	123	86.1	160	Siemens Centaur XP/XPT/Classic
	µU/ml	119	95.2	143	Siemens Immulite 2000/2500
	µU/ml	133	106	160	Siemens Immulite 1000
	µU/ml	108	86.4	130	Beckman Dxl800
	µU/ml	107	85.6	128	Roche Elecsys
	µU/ml	129	103	155	Diasorin Liaison
	µU/ml	113	90.4	136	Beckman Access
	µU/ml	126	101	151	Tosoh Series
	µU/ml	199	159	239	Vitros ECi
	µU/ml	107	85.6	128	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	134	107	161	Immunotech IRMA
	µU/ml	109	87.2	131	Roche Cobas E411
	µU/ml	106	84.8	127	Roche Cobas 6000/8000
	µU/ml	151	121	181	Fujirebio Lumipulse G Series
	µU/ml	113	79.1	147	Siemens Centaur CP
	µU/ml	184	147	221	Mindray CL-2000i
µU/ml	126	101	151	Diasorin Liaison XL	
PSA Free	ng/ml = µg/l	1.48	1.11	1.85	Abbott Architect
	ng/ml = µg/l	1.14	0.855	1.43	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.18	0.885	1.48	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.02	0.765	1.28	Siemens Immulite 1000
	ng/ml = µg/l	1.39	1.04	1.74	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	0.890	0.668	1.11	Roche Elecsys
	ng/ml = µg/l	0.782	0.587	0.978	Diasorin Liaison
	ng/ml = µg/l	1.50	1.13	1.88	Beckman Access standardised to Hybritech
	ng/ml = µg/l	0.805	0.604	1.01	Tosoh Series
	ng/ml = µg/l	0.890	0.668	1.11	Roche Cobas E411
	ng/ml = µg/l	0.901	0.676	1.13	Roche Cobas 6000/8000
	ng/ml = µg/l	1.29	0.968	1.61	Beckman Dxl800 standardised to WHO IRP96/670

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Free	ng/ml = µg/l	1.48	1.11	1.85	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	0.442	0.332	0.553	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	0.963	0.722	1.20	Fujirebio Lumipulse G Series
	ng/ml = µg/l	0.771	0.578	0.964	Diasorin Liaison XL
PSA Total	ng/ml = µg/l	1.40	1.05	1.75	Abbott Architect
	ng/ml = µg/l	1.65	1.24	2.06	BioMerieux Vidas
	ng/ml = µg/l	1.75	1.31	2.19	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.57	1.18	1.96	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	0.692	0.519	0.865	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	0.684	0.513	0.855	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	0.736	0.552	0.920	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	2.05	1.54	2.56	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	1.71	1.28	2.14	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.90	1.43	2.38	Roche Elecsys
	ng/ml = µg/l	0.920	0.690	1.15	Diasorin Liaison
	ng/ml = µg/l	2.10	1.58	2.63	Beckman Access standardised to Hybritech
	ng/ml = µg/l	2.06	1.55	2.58	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.18	0.885	1.48	Tosoh Series
	ng/ml = µg/l	1.81	1.36	2.26	Vitros ECi
	ng/ml = µg/l	2.37	1.78	2.96	CIS RIA Coated tube
	ng/ml = µg/l	1.87	1.40	2.34	Roche Cobas E411
	ng/ml = µg/l	1.94	1.46	2.43	Roche Cobas 6000/8000
	ng/ml = µg/l	1.80	1.35	2.25	SNIBE Maglumi Analysers
	ng/ml = µg/l	1.28	0.960	1.60	Fujirebio Lumipulse G Series
ng/ml = µg/l	1.89	1.42	2.36	Ortho Vitros 3600/5600/ECi PSA II	
ng/ml = µg/l	1.51	1.13	1.89	Siemens Centaur CP	
ng/ml = µg/l	0.845	0.634	1.06	Diasorin Liaison XL	
Salicylic Acid	mmol/l	0.286	0.230	0.340	Gravimetric
	mg/dl	3.95	3.18	4.70	
SHBG	nmol/l	12.4	9.92	14.9	Siemens Immulite 1000
	nmol/l	13.0	10.4	15.6	Siemens Immulite 2000/2500
	nmol/l	12.7	10.2	15.2	Abbott Architect
	nmol/l	12.3	9.84	14.8	Roche Cobas E411
	nmol/l	11.6	9.28	13.9	Roche Cobas 6000/8000
	nmol/l	11.7	9.36	14.0	Beckman Dxl800
T Uptake	%U	33.0	27.1	38.9	Siemens Immulite 2000
Testosterone	nmol/l	2.17	1.74	2.60	Abbott Architect
	ng/ml	0.625	0.501	0.749	
	ng/dl	62.5	50.1	74.9	
	nmol/l	1.12	0.896	1.34	BioMerieux Vidas
	ng/ml	0.323	0.258	0.388	
	ng/dl	32.3	25.8	38.8	
	nmol/l	1.68	1.09	2.27	Siemens Centaur XP/XPT/Classic
	ng/ml	0.484	0.315	0.653	
	ng/dl	48.4	31.5	65.3	
	nmol/l	1.64	1.31	1.97	CIS RIA Coated tube
ng/ml	0.472	0.377	0.567		
ng/dl	47.2	37.7	56.7		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	1.16	0.928	1.39	Siemens Immulite 2000/2500
	ng/ml	0.334	0.267	0.401	
	ng/dl	33.4	26.7	40.1	
	nmol/l	1.55	1.24	1.86	Beckman Dxl800
	ng/ml	0.446	0.357	0.535	
	ng/dl	44.6	35.7	53.5	
	nmol/l	1.70	1.36	2.04	Beckman Access
	ng/ml	0.490	0.392	0.588	
	ng/dl	49.0	39.2	58.8	
	nmol/l	1.17	0.936	1.40	Tosoh Series
	ng/ml	0.337	0.270	0.404	
	ng/dl	33.7	27.0	40.4	
	nmol/l	0.988	0.790	1.19	Vitros ECI
	ng/ml	0.285	0.228	0.342	
	ng/dl	28.5	22.8	34.2	
	nmol/l	1.78	1.42	2.14	Roche Cobas 6000 Test 2
	ng/ml	0.513	0.409	0.617	
	ng/dl	51.3	40.9	61.7	
	nmol/l	1.83	1.46	2.20	Roche Elecsys Test II
	ng/ml	0.527	0.420	0.634	
	ng/dl	52.7	42.0	63.4	
	nmol/l	1.88	1.50	2.26	Roche Cobas 4000/e411 Test II
	ng/ml	0.541	0.432	0.650	
	ng/dl	54.1	43.2	65.0	
nmol/l	2.13	1.70	2.56	Abbott Architect 2nd Generation	
ng/ml	0.613	0.490	0.736		
ng/dl	61.3	49.0	73.6		
nmol/l	1.54	1.00	2.08	Siemens Centaur CP	
ng/ml	0.444	0.289	0.599		
ng/dl	44.4	28.9	59.9		
nmol/l	1.13	0.904	1.36	BioMerieux Vidas Testosterone II	
ng/ml	0.325	0.260	0.390		
ng/dl	32.5	26.0	39.0		
nmol/l	1.18	0.944	1.42	Mindray CL-2000i	
ng/ml	0.340	0.272	0.408		
ng/dl	34.0	27.2	40.8		
nmol/l	1.70	1.11	2.29	Siemens Centaur TST II	
ng/ml	0.490	0.319	0.661		
ng/dl	49.0	31.9	66.1		
nmol/l	0.871	0.697	1.05	Diasorin Liaison XL	
ng/ml	0.251	0.201	0.301		
ng/dl	25.1	20.1	30.1		
Theophylline	µmol/l	28.2	22.6	33.8	Roche Integra
	µg/ml	5.08	4.07	6.09	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods	
			low	high		
Theophylline	µmol/l	25.0	20.0	30.0	Abbott Architect	
	µg/ml	4.51	3.60	5.42		
	µmol/l	25.8	20.6	31.0	Roche Cobas 6000/8000	
	µg/ml	4.65	3.71	5.59		
	µmol/l	22.2	17.8	26.6	Beckman DxC	
	µg/ml	4.00	3.21	4.79		
	µmol/l	24.7	19.8	29.6	Beckman AU400/600/640/2700/5400	
	µg/ml	4.45	3.57	5.33		
	µmol/l	28.3	22.6	34.0	Gravimetric	
	µg/ml	5.10	4.07	6.13		
	Thyroglobulin	ng/ml	0.200	0.150	0.250	Siemens Immulite 1000
		ng/ml	2.15	1.61	2.69	Roche Elecsys
ng/ml		1.44	1.08	1.80	Beckman Dxl800	
ng/ml		2.10	1.58	2.63	Roche Cobas E411	
ng/ml		2.06	1.55	2.58	Roche Cobas 6000/8000	
ng/ml		1.51	1.13	1.89	Beckman Access	
ng/ml		1.57	1.18	1.96	Abbott Architect 2000i	
ng/ml		1.81	1.36	2.26	Tosoh Series	
ng/ml		2.06	1.55	2.58	Roche Cobas 6000 TGII	
ng/ml		2.12	1.59	2.65	Roche Elecsys TGII	
ng/ml		2.11	1.58	2.64	Roche Cobas 4000/E411 TGII	
Thyroid Stimulating Hormone		µU/ml = mIU/l	0.081	0.065	0.097	Abbott Architect
	µU/ml = mIU/l	0.060	0.048	0.072	bioMerieux VIDAS TSH	
	µU/ml = mIU/l	0.056	0.045	0.067	bioMerieux VIDAS TSH3 Ultrasensitive	
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur XP/XPT/Classic	
	µU/ml = mIU/l	0.138	0.110	0.166	CIS IRMA	
	µU/ml = mIU/l	0.089	0.061	0.117	Siemens Centaur XP/XPT/Classic 3rd Generation	
	µU/ml = mIU/l	0.086	0.069	0.103	Siemens Immulite 2000/2500	
	µU/ml = mIU/l	0.108	0.086	0.130	Siemens Immulite 1000	
	µU/ml = mIU/l	0.076	0.061	0.091	Beckman Dxl800 Fast TSH	
	µU/ml = mIU/l	0.074	0.059	0.089	Beckman Dxl800	
	µU/ml = mIU/l	0.117	0.094	0.140	Roche Elecsys	
	µU/ml = mIU/l	0.115	0.092	0.138	Diasorin Liaison	
	µU/ml = mIU/l	0.080	0.064	0.096	Beckman Access Fast TSH	
	µU/ml = mIU/l	0.078	0.062	0.094	Beckman Access hyperTSH 3rd Generation	
	µU/ml = mIU/l	0.093	0.074	0.112	Tosoh Series	
	µU/ml = mIU/l	0.146	0.117	0.175	Vitros ECi	
	µU/ml = mIU/l	0.119	0.095	0.143	Roche Cobas E411	
	µU/ml = mIU/l	0.117	0.094	0.140	Roche Cobas 6000/8000	
	µU/ml = mIU/l	0.074	0.059	0.089	Beckman Dxl800 Hyper TSH	
	µU/ml = mIU/l	0.089	0.061	0.117	Siemens Centaur XP/XPT/Classic TSH3-Ultra	
	µU/ml = mIU/l	0.089	0.061	0.117	Siemens Centaur CP	
	µU/ml = mIU/l	0.086	0.058	0.114	Siemens Centaur CP TSH3-Ultra	
	µU/ml = mIU/l	0.145	0.116	0.174	Mindray CL-2000i	
	µU/ml = mIU/l	0.075	0.060	0.090	Beckman Dxl 600/800 Access (3rd IS)	
	µU/ml = mIU/l	0.135	0.108	0.162	Diasorin Liaison XL	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Tobramycin	µmol/l	4.17	3.34	5.00	Gravimetric
	µg/ml	1.95	1.56	2.34	
Total Beta hCG	mU/ml=IU/l	9.18	7.34	11.0	Abbott Architect
	IU/ml	0.009	0.007	0.011	
	mU/ml=IU/l	22.5	18.0	27.0	BioMerieux Vidas
	IU/ml	0.023	0.018	0.028	
	mU/ml=IU/l	13.5	8.10	18.9	Siemens Centaur XP/XPT/Classic
	IU/ml	0.014	0.008	0.019	
	mU/ml=IU/l	28.4	22.7	34.1	Siemens Dimension
	IU/ml	0.028	0.023	0.033	
	mU/ml=IU/l	42.1	33.7	50.5	Siemens Immulite 2000
	IU/ml	0.042	0.034	0.050	
	mU/ml=IU/l	38.5	30.8	46.2	Siemens Immulite 1000
	IU/ml	0.039	0.031	0.047	
	mU/ml=IU/l	10.3	8.24	12.4	Beckman Dxl800
	IU/ml	0.010	0.008	0.012	
	mU/ml=IU/l	8.95	7.16	10.7	Diasorin Liaison
	IU/ml	0.009	0.007	0.011	
	mU/ml=IU/l	13.6	10.9	16.3	Roche Cobas Core EIA
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	10.2	8.16	12.2	Beckman Access
	IU/ml	0.010	0.008	0.012	
	mU/ml=IU/l	24.2	19.4	29.0	Tosoh Series
	IU/ml	0.024	0.019	0.029	
	mU/ml=IU/l	26.8	21.4	32.2	Vitros ECI
	IU/ml	0.027	0.021	0.033	
	mU/ml=IU/l	10.6	8.48	12.7	Roche STAT (Intact)
	IU/ml	0.011	0.008	0.014	
	mU/ml=IU/l	13.7	11.0	16.4	Roche hCG+Beta
	IU/ml	0.014	0.011	0.017	
	mU/ml=IU/l	26.1	20.9	31.3	SNIBE Maglumi Analysers
	IU/ml	0.026	0.021	0.031	
mU/ml=IU/l	6.85	5.48	8.22	Fujirebio Lumipulse G Series	
IU/ml	0.007	0.005	0.009		
mU/ml=IU/l	10.3	8.24	12.4	Beckman Access Total BhCG (5th IS)	
IU/ml	0.010	0.008	0.012		
mU/ml=IU/l	10.3	8.24	12.4	Beckman Dxl Total BhCG (5th IS)	
IU/ml	0.010	0.008	0.012		
mU/ml=IU/l	11.1	6.66	15.5	Siemens Centaur CP	
IU/ml	0.011	0.007	0.016		
mU/ml=IU/l	8.69	6.95	10.4	Diasorin Liaison XL	
IU/ml	0.009	0.007	0.011		
Total T3	nmol/l	0.713	0.535	0.891	Abbott Architect
	ng/ml	0.464	0.348	0.580	
	ng/dl	46.4	34.8	58.0	
	nmol/l	0.444	0.333	0.555	BioMerieux Vidas
	ng/ml	0.289	0.217	0.361	
	ng/dl	28.9	21.7	36.1	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	0.449	0.337	0.561	Siemens Centaur XP/XPT/Classic
	ng/ml	0.292	0.219	0.365	
	ng/dl	29.2	21.9	36.5	
	nmol/l	0.616	0.462	0.770	Siemens Immulite 2000/2500
	ng/ml	0.401	0.301	0.501	
	ng/dl	40.1	30.1	50.1	
	nmol/l	0.616	0.462	0.770	Siemens Immulite 1000
	ng/ml	0.401	0.301	0.501	
	ng/dl	40.1	30.1	50.1	
	nmol/l	0.902	0.677	1.13	Beckman Dxl800
	ng/ml	0.587	0.441	0.733	
	ng/dl	58.7	44.1	73.3	
	nmol/l	1.22	0.915	1.53	Roche Elecsys
	ng/ml	0.794	0.596	0.992	
	ng/dl	79.4	59.6	99.2	
	nmol/l	1.05	0.788	1.31	Beckman Access
	ng/ml	0.684	0.513	0.855	
	ng/dl	68.4	51.3	85.5	
	nmol/l	0.462	0.347	0.578	Tosoh Series
	ng/ml	0.301	0.226	0.376	
	ng/dl	30.1	22.6	37.6	
nmol/l	0.645	0.484	0.806	Vitros ECi	
ng/ml	0.420	0.315	0.525		
ng/dl	42.0	31.5	52.5		
nmol/l	0.581	0.436	0.726	CIS RIA Coated tube	
ng/ml	0.378	0.284	0.472		
ng/dl	37.8	28.4	47.2		
nmol/l	1.15	0.863	1.44	Roche Cobas E411	
ng/ml	0.749	0.562	0.936		
ng/dl	74.9	56.2	93.6		
nmol/l	0.980	0.735	1.23	Roche Cobas 6000/8000	
ng/ml	0.638	0.478	0.798		
ng/dl	63.8	47.8	79.8		
nmol/l	0.879	0.659	1.10	Diasorin Liaison XL	
ng/ml	0.572	0.429	0.715		
ng/dl	57.2	42.9	71.5		
Total T4	nmol/l	32.0	24.0	40.0	Abbott Architect
	µg/dl	2.50	1.87	3.13	
	ng/ml	25.0	18.7	31.3	
	nmol/l	29.0	21.8	36.3	BioMerieux Vidas
	µg/dl	2.26	1.70	2.82	
	ng/ml	22.6	17.0	28.2	
	nmol/l	22.0	15.4	28.6	Siemens Centaur XP/XPT/Classic
	µg/dl	1.72	1.20	2.24	
	ng/ml	17.2	12.0	22.4	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	23.3	17.5	29.1	Siemens Immulite 2000/2500
	µg/dl	1.82	1.37	2.27	
	ng/ml	18.2	13.7	22.7	
	nmol/l	22.8	17.1	28.5	Siemens Immulite 1000
	µg/dl	1.78	1.33	2.23	
	ng/ml	17.8	13.3	22.3	
	nmol/l	16.9	12.7	21.1	Beckman Dxl800
	µg/dl	1.32	0.991	1.65	
	ng/ml	13.2	9.91	16.5	
	nmol/l	36.7	27.5	45.9	Roche Elecsys
	µg/dl	2.86	2.15	3.57	
	ng/ml	28.6	21.5	35.7	
	nmol/l	21.6	16.2	27.0	Beckman Access
	µg/dl	1.68	1.26	2.10	
	ng/ml	16.8	12.6	21.0	
	nmol/l	25.0	18.8	31.3	Tosoh Series
	µg/dl	1.95	1.47	2.43	
	ng/ml	19.5	14.7	24.3	
	nmol/l	27.5	20.6	34.4	Vitros ECi
	µg/dl	2.15	1.61	2.69	
	ng/ml	21.5	16.1	26.9	
	nmol/l	29.1	21.8	36.4	CIS RIA Coated tube
	µg/dl	2.27	1.70	2.84	
	ng/ml	22.7	17.0	28.4	
	nmol/l	36.9	27.7	46.1	Roche Cobas E411
	µg/dl	2.88	2.16	3.60	
	ng/ml	28.8	21.6	36.0	
nmol/l	36.3	27.2	45.4	Roche Cobas 6000/8000	
µg/dl	2.83	2.12	3.54		
ng/ml	28.3	21.2	35.4		
nmol/l	29.9	22.4	37.4	Immunotech IRMA	
µg/dl	2.33	1.75	2.91		
ng/ml	23.3	17.5	29.1		
nmol/l	32.4	24.3	40.5	ELISA	
µg/dl	2.53	1.90	3.16		
ng/ml	25.3	19.0	31.6		
nmol/l	20.8	15.6	26.0	Boditech Med Inc i-CHROMA	
µg/dl	1.62	1.22	2.02		
ng/ml	16.2	12.2	20.2		
nmol/l	21.4	15.0	27.8	Siemens Centaur CP	
µg/dl	1.67	1.17	2.17		
ng/ml	16.7	11.7	21.7		
nmol/l	33.8	25.4	42.3	Diasorin Liaison XL	
µg/dl	2.64	1.98	3.30		
ng/ml	26.4	19.8	33.0		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Valproic Acid	µmol/l	155	124	186	Abbott Architect
	µg/ml	22.4	17.9	26.9	
	µmol/l	203	142	264	Siemens Centaur XP/XPT/Classic
	µg/ml	29.3	20.5	38.1	
	µmol/l	181	145	217	Siemens Dimension
	µg/ml	26.1	20.9	31.3	
	µmol/l	165	132	198	Siemens Immulite 2000/2500
	µg/ml	23.8	19.0	28.6	
	µmol/l	183	146	220	Siemens Immulite 1000
	µg/ml	26.4	21.1	31.7	
	µmol/l	195	156	234	Roche Integra
	µg/ml	28.1	22.5	33.7	
	µmol/l	183	146	220	Vitros
	µg/ml	26.4	21.1	31.7	
	µmol/l	191	153	229	Roche Cobas E411
	µg/ml	27.6	22.1	33.1	
	µmol/l	195	156	234	Roche Cobas 6000/8000
	µg/ml	28.1	22.5	33.7	
µmol/l	194	155	233	Beckman DxC	
µg/ml	28.0	22.4	33.6		
µmol/l	198	158	238	Beckman AU400/600/640/2700/5400	
µg/ml	28.6	22.8	34.4		
µmol/l	201	161	241	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	29.0	23.2	34.8		
µmol/l	243	194	292	Gravimetric	
µg/ml	35.1	28.0	42.1		
Vancomycin	µmol/l	3.68	2.94	4.42	Ortho Vitros Microslide Systems
	µg/ml	5.47	4.37	6.57	
	µmol/l	3.09	2.47	3.71	Abbott Architect
	µg/ml	4.59	3.67	5.51	
	µmol/l	2.23	1.67	2.79	Siemens Centaur XP/XPT/Classic
	µg/ml	3.31	2.48	4.14	
	µmol/l	3.04	2.43	3.65	Siemens Dimension
	µg/ml	4.52	3.61	5.43	
	µmol/l	3.19	2.55	3.83	Roche Cobas 6000/8000
	µg/ml	4.74	3.79	5.69	
µmol/l	2.74	2.19	3.29	Beckman DxC	
µg/ml	4.07	3.25	4.89		
µmol/l	3.43	2.74	4.12	Gravimetric	
µg/ml	5.10	4.07	6.12		
Vitamin B12	pmol/l	138	110	166	Abbott Architect
	pg/ml	187	149	225	
	pmol/l	121	84.7	157	Siemens Centaur XP/XPT/Classic
	pg/ml	164	115	213	
	pmol/l	121	96.8	145	Siemens Immulite 1000
	pg/ml	164	131	197	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 1937EC Size 12 x 5 ml / 4 x 5 ml Expiry 2022-12-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	86.2	69.0	103	Beckman Dxl800
	pg/ml	117	93.5	141	
	pmol/l	138	110	166	Roche Elecsys
	pg/ml	187	149	225	
	pmol/l	86.8	69.4	104	Beckman Access
	pg/ml	118	94.0	142	
	pmol/l	122	97.6	146	Tosoh Series
	pg/ml	165	132	198	
	pmol/l	133	106	160	Vitros ECi
	pg/ml	180	144	216	
	pmol/l	100	80.0	120	Siemens Dimension
	pg/ml	136	108	164	
	pmol/l	115	80.5	149	Siemens Centaur CP
	pg/ml	156	109	203	