

PRODUCT INFORMATION

IA3109 / IA3112

2024EC

The reconstituted stability for Immunoassay Premium Plus Level 1 - lot 2024EC for **Free PSA and Total PSA** is **2 days, when stored at +2°C to +8°C.**

Free PSA and Total PSA are stable for 28 days when frozen once and stored at -20°C .

CCS6934

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. 2024EC	EXPIRY: 2023-11-28	

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. Free PSA and Total PSA are stable for 2 days when stored at +2°C to +8°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.

- 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 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.

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Dungloe, Donegal,
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IMMUNOASSAY PREMIUM PLUS LEVEL 1 'f15 'DF9A± A 'D@ G'%'

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	3.43	2.57	4.29	Immunotech RIA
	ng/ml	1.14	0.851	1.43	
	nmol/l	3.81	2.86	4.76	ELISA
	ng/ml	1.26	0.947	1.57	
	nmol/l	3.28	2.46	4.10	Novatec ELISA
	ng/ml	1.09	0.814	1.37	
	nmol/l	3.56	2.67	4.45	DRG ELISA
	ng/ml	1.18	0.884	1.48	
	nmol/l	4.62	3.47	5.78	DIAsource RIA
	ng/ml	1.53	1.15	1.91	
	nmol/l	3.77	2.83	4.71	DIAsource ELISA
	ng/ml	1.25	0.937	1.56	
	nmol/l	3.21	2.41	4.01	IBL ELISA
	ng/ml	1.06	0.798	1.32	
25-OH Vitamin D	nmol/l	52.1	39.1	65.1	Diasorin Liaison
	nmol/l	46.7	35.0	58.4	Siemens Centaur XP/XPT/Classic
	nmol/l	23.1	17.3	28.9	Roche Vitamin D Total
	nmol/l	23.5	17.6	29.4	Abbott Architect (3L52)
	nmol/l	98.9	74.2	124	Vitros ECi
	nmol/l	39.6	29.7	49.5	Tosoh Series
	nmol/l	34.9	26.2	43.6	BioMerieux Vidas
	nmol/l	53.5	40.1	66.9	Beckman Dxl 600/800
	nmol/l	21.0	15.8	26.3	Fujirebio Lumipulse G Series
	nmol/l	53.8	40.4	67.3	Beckman Access 25 OH Vitamin D Total
	nmol/l	22.1	16.6	27.6	LC/MS
	nmol/l	23.2	17.4	29.0	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	55.1	41.3	68.9	Diasorin Liaison XL
	nmol/l	23.4	17.6	29.3	Roche Vitamin D Total II
	nmol/l	23.6	17.7	29.5	Abbott Alinity i
nmol/l	26.9	20.2	33.6	Roche Vitamin D Total II e801	
ACTH	pmol/l	1.10	0.825	1.38	Siemens Immulite 2000/2500
	pg/ml	5.00	3.75	6.25	
	pmol/l	0.644	0.483	0.805	Roche Cobas e601/602
	pg/ml	2.93	2.20	3.66	
	pmol/l	2.09	1.57	2.61	Siemens Immulite 1000
	pg/ml	9.50	7.14	11.9	
	pmol/l	0.765	0.574	0.956	Roche Elecsys
	pg/ml	3.48	2.61	4.35	
	pmol/l	0.623	0.467	0.779	Diasorin Liaison
	pg/ml	2.83	2.12	3.54	
	pmol/l	0.345	0.259	0.431	Roche Cobas e801
	pg/ml	1.57	1.18	1.96	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 f15 DF9A± A'D@ G%L

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	8.91	7.13	10.7	Abbott Architect
	ng/ml	10.8	8.63	13.0	
	KIU/l = IU/ml	8.23	6.58	9.88	BioMerieux Vidas
	ng/ml	9.96	7.96	12.0	
	KIU/l = IU/ml	10.6	8.37	12.8	Siemens Centaur XP/XPT/Classic
	ng/ml	12.8	10.1	15.5	
	KIU/l = IU/ml	9.37	7.50	11.2	Siemens Immulite 2000/2500
	ng/ml	11.3	9.08	13.5	
	KIU/l = IU/ml	9.37	7.50	11.2	Siemens Immulite 1000
	ng/ml	11.3	9.08	13.5	
	KIU/l = IU/ml	9.27	7.42	11.1	Beckman Dxl800
	ng/ml	11.2	8.98	13.4	
	KIU/l = IU/ml	9.95	7.96	11.9	Roche Elecsys
	ng/ml	12.0	9.63	14.4	
	KIU/l = IU/ml	9.88	7.90	11.9	Diasorin Liaison
	ng/ml	12.0	9.56	14.4	
	KIU/l = IU/ml	9.19	7.35	11.0	Beckman Access
	ng/ml	11.1	8.89	13.3	
	KIU/l = IU/ml	9.87	7.90	11.8	Tosoh Series
	ng/ml	11.9	9.56	14.2	
KIU/l = IU/ml	9.70	7.76	11.6	Vitros Eci	
ng/ml	10.1	8.08	12.1		
KIU/l = IU/ml	10.2	8.16	12.2	Roche Cobas e601/602	
ng/ml	12.3	9.87	14.7		
KIU/l = IU/ml	19.7	15.8	23.6	CIS IRMA	
ng/ml	23.8	19.1	28.5		
KIU/l = IU/ml	9.98	7.98	12.0	Roche Cobas 4000/E411	
ng/ml	12.1	9.66	14.5		
KIU/l = IU/ml	10.2	8.06	12.3	Siemens Centaur CP	
ng/ml	12.3	9.72	14.9		
KIU/l = IU/ml	10.5	8.40	12.6	Diasorin Liaison XL	
ng/ml	12.7	10.2	15.2		
KIU/l = IU/ml	10.9	8.72	13.1	Siemens Atellica IM	
ng/ml	13.2	10.6	15.8		
KIU/l = IU/ml	8.93	7.14	10.7	Abbott Alinity i	
ng/ml	10.8	8.64	13.0		
KIU/l = IU/ml	10.3	8.24	12.4	Roche Cobas e801	
ng/ml	12.5	9.97	15.0		
Amikacin	µmol/l	6.38	5.10	7.66	Roche Cobas 6000/8000
	µg/ml	3.74	2.99	4.49	
	µmol/l	6.23	4.98	7.48	Thermo Scientific QMS Amikacin
	µg/ml	3.65	2.92	4.38	
Androstenedione	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
	nmol/l	3.61	2.71	4.51	Beckman Coulter RIA
	ng/ml	1.04	0.778	1.30	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 f15 DF9A± A'D@ G%L

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Androstenedione	nmol/l	5.92	4.44	7.40	Siemens Immulite 2000
	ng/ml	1.70	1.27	2.13	
	nmol/l	5.72	4.29	7.15	Siemens Immulite 1000
	ng/ml	1.64	1.23	2.05	
	nmol/l	5.59	4.19	6.99	Diasorin Liaison XL
	ng/ml	1.60	1.20	2.00	
Beta-2-microglobulin	µg/ml = mg/l	0.916	0.733	1.10	Abbott Architect
	µg/ml = mg/l	0.995	0.796	1.19	BioMerieux Vidas
	µg/ml = mg/l	0.888	0.710	1.07	Behring Nephelometer
	µg/ml = mg/l	0.883	0.706	1.06	Siemens Immulite 2000/2500
	µg/ml = mg/l	0.900	0.720	1.08	Siemens Immulite 1000
	µg/ml = mg/l	0.983	0.786	1.18	Tosoh Series
	µg/ml = mg/l	1.07	0.856	1.28	Roche Cobas 6000/8000
	µg/ml = mg/l	0.844	0.675	1.01	Siemens Atellica CH
	µg/ml = mg/l	0.955	0.764	1.15	Abbott Alinity
C-Peptide	nmol/l	0.664	0.498	0.830	Siemens Immulite 2000/2500
	ng/ml	2.00	1.50	2.50	
	nmol/l	0.835	0.626	1.040	Roche Elecsys
	ng/ml	2.52	1.89	3.15	
	nmol/l	0.822	0.617	1.030	Roche Cobas e601/602
	ng/ml	2.48	1.86	3.10	
	nmol/l	0.879	0.659	1.100	Diasorin Liaison
	ng/ml	2.65	1.99	3.31	
	nmol/l	0.826	0.620	1.030	Roche Cobas 4000/E411
	ng/ml	2.49	1.87	3.11	
	nmol/l	0.735	0.551	0.919	Abbott Architect
	ng/ml	2.22	1.66	2.78	
	nmol/l	0.562	0.393	0.731	Siemens Centaur XP/XPT/Classic
	ng/ml	1.70	1.19	2.21	
	nmol/l	0.752	0.564	0.940	Tosoh Series
	ng/ml	2.27	1.70	2.84	
	nmol/l	0.837	0.628	1.050	Diasorin Liaison XL
	ng/ml	2.53	1.90	3.16	
nmol/l	0.810	0.608	1.010	Roche Cobas e801	
ng/ml	2.45	1.84	3.06		
nmol/l	0.567	0.425	0.709	Siemens Atellica IM	
ng/ml	1.71	1.28	2.14		
nmol/l	0.726	0.545	0.908	Abbott Alinity i	
ng/ml	2.19	1.65	2.73		
CA 15-3	U/ml	31.3	25.0	37.6	Abbott Architect
	U/ml	24.6	19.7	29.5	BioMerieux Vidas
	U/ml	27.0	17.8	36.2	Siemens Centaur XP/XPT/Classic
	U/ml	22.9	18.3	27.5	Siemens Immulite 2000/2500
	U/ml	23.2	18.6	27.8	Siemens Immulite 1000
	U/ml	9.26	7.41	11.1	Beckman DxI800
	U/ml	26.2	21.0	31.4	Roche Elecsys

IMMUNOASSAY PREMIUM PLUS LEVEL 1 f15 DF9A± A'D@ G'%

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
CA 15-3	U/ml	29.4	23.5	35.3	Diasorin Liaison
	U/ml	9.26	7.41	11.1	Beckman Access
	U/ml	22.9	18.3	27.5	Vitros ECI
	U/ml	26.3	21.0	31.6	Roche Cobas e601/602
	U/ml	26.1	20.9	31.3	Roche Cobas 4000/E411
	U/ml	30.8	24.6	37.0	Fujirebio Lumipulse G Series
	U/ml	27.4	18.1	36.7	Siemens Centaur CP
	U/ml	11.1	8.88	13.3	Mindray CL-2000i
	U/ml	30.6	24.5	36.7	Siemens Atellica IM
	U/ml	25.2	20.2	30.2	Roche Cobas e801
CA 19-9	U/ml	32.5	26.0	39.0	Abbott Alinity i
	U/ml	16.5	13.2	19.8	BioMerieux Vidas
	U/ml	24.0	15.8	32.2	Siemens Centaur XP/XPT/Classic
	U/ml	147	118	176	Siemens Immulite 2000/2500
	U/ml	159	127	191	Beckman Dxl800
	U/ml	27.4	21.9	32.9	Roche Elecsys
	U/ml	178	142	214	Beckman Access
	U/ml	31.1	24.9	37.3	Tosoh Series
	U/ml	40.0	32.0	48.0	Vitros ECI
	U/ml	34.5	27.6	41.4	Abbott Architect XR/XR2/XRL
	U/ml	27.8	22.2	33.4	Roche Cobas e601/602
	U/ml	28.1	22.5	33.7	Roche Cobas 4000/E411
	U/ml	29.0	19.1	38.9	Siemens Centaur CP
	U/ml	18.9	15.1	22.7	Mindray CL-2000i
	U/ml	24.7	19.8	29.6	Siemens Atellica IM
U/ml	27.8	22.2	33.4	Roche Cobas e801	
U/ml	34.9	27.9	41.9	Abbott Alinity XR/XR2/XRL	
CA125	U/ml	22.4	17.9	26.9	Abbott Architect
	U/ml	16.4	13.1	19.7	BioMerieux Vidas
	U/ml	13.4	8.84	18.0	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	13.5	8.91	18.1	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	8.91	7.13	10.7	Siemens Immulite 2000/2500
	U/ml	9.93	7.94	11.9	Siemens Immulite 1000
	U/ml	7.21	5.77	8.65	Beckman Dxl800
	U/ml	20.8	16.6	25.0	Roche Elecsys
	U/ml	24.0	19.2	28.8	Diasorin Liaison
	U/ml	7.52	6.02	9.02	Beckman Access
	U/ml	31.5	25.2	37.8	Tosoh Series
	U/ml	12.3	9.84	14.8	Vitros ECI
	U/ml	21.0	16.8	25.2	Roche Cobas 4000/E411
	U/ml	20.7	16.6	24.8	Roche Cobas e601/602
	U/ml	20.3	16.2	24.4	Fujirebio Lumipulse G Series
	U/ml	13.7	9.04	18.4	Siemens Centaur CP CA125 II kit
	U/ml	11.7	9.36	14.0	Mindray CL-2000i
	U/ml	21.5	17.2	25.8	Diasorin Liaison XL
U/ml	17.9	14.3	21.5	Siemens Atellica IM	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
CA125	U/ml	19.0	15.2	22.8	Roche Cobas e801
	U/ml	22.5	18.0	27.0	Abbott Alinity i
Carbamazepine	µmol/l	15.9	12.7	19.1	Abbott Architect (CMIA)
	µg/ml	3.76	3.00	4.52	
	µmol/l	17.3	12.5	22.1	Siemens Centaur XP/XPT/Classic
	µg/ml	4.09	2.94	5.24	
	µmol/l	13.8	11.0	16.6	Siemens Dimension
	µg/ml	3.26	2.60	3.92	
	µmol/l	12.8	10.2	15.4	Siemens Immulite 2000/2500
	µg/ml	3.03	2.41	3.65	
	µmol/l	11.7	9.36	14.0	Siemens Immulite 1000
	µg/ml	2.77	2.21	3.33	
	µmol/l	15.8	12.6	19.0	Roche Integra
	µg/ml	3.74	2.98	4.50	
	µmol/l	14.3	11.4	17.2	Roche Cobas 6000/8000
	µg/ml	3.38	2.69	4.07	
	µmol/l	15.7	12.6	18.8	Beckman DxC
	µg/ml	3.71	2.98	4.44	
	µmol/l	16.7	13.4	20.0	Beckman AU400/600/640/2700/5400
	µg/ml	3.95	3.17	4.73	
	µmol/l	14.2	11.4	17.0	Abbott Architect (PETINA)
	µg/ml	3.36	2.69	4.03	
µmol/l	16.1	12.9	19.3	EMIT	
µg/ml	3.81	3.05	4.57		
µmol/l	14.8	11.8	17.8	Siemens Atellica CH	
µg/ml	3.50	2.79	4.21		
µmol/l	13.7	11.0	16.4	Abbott Alinity (PETINA)	
µg/ml	3.24	2.60	3.88		
µmol/l	15.4	12.3	18.5	Gravimetric	
µg/ml	3.64	2.91	4.37		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	6.11	4.89	7.33	Abbott Architect
	ng/ml = µg/l	4.85	3.88	5.82	BioMerieux Vidas
	ng/ml = µg/l	5.57	3.68	7.46	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	7.33	5.86	8.80	CIS RIA Coated tube
	ng/ml = µg/l	6.86	5.49	8.23	Siemens Immulite 2000/2500
	ng/ml = µg/l	6.97	5.58	8.36	Siemens Immulite 1000
	ng/ml = µg/l	5.12	4.10	6.14	Beckman Dxl800
	ng/ml = µg/l	5.33	4.26	6.40	Roche Elecsys
	ng/ml = µg/l	5.00	4.00	6.00	Diasorin Liaison
	ng/ml = µg/l	5.15	4.12	6.18	Beckman Access
	ng/ml = µg/l	9.08	7.26	10.9	Tosoh Series
	ng/ml = µg/l	5.06	4.05	6.07	Vitros ECI
	ng/ml = µg/l	5.28	4.22	6.34	Roche Cobas e601/602
	ng/ml = µg/l	5.44	4.35	6.53	Roche Cobas 4000/E411
	ng/ml = µg/l	7.50	6.00	9.00	Fujirebio Lumipulse G Series
ng/ml = µg/l	5.57	3.68	7.46	Siemens Centaur CP	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	3.76	3.01	4.51	Mindray CL-2000i
	ng/ml = µg/l	4.91	3.93	5.89	Diasorin Liaison XL
	ng/ml = µg/l	5.63	4.50	6.76	Siemens Atellica IM
	ng/ml = µg/l	5.31	4.25	6.37	Roche Cobas e801
	ng/ml = µg/l	6.01	4.81	7.21	Abbott Alinity i
Cortisol	nmol/l	209	157	261	Abbott Architect
	µg/dl	7.52	5.65	9.39	
	nmol/l	142	107	178	BioMerieux Vidas
	µg/dl	5.11	3.85	6.37	
	nmol/l	186	123	249	Siemens Centaur XP/XPT/Classic
	µg/dl	6.70	4.42	8.98	
	nmol/l	175	131	219	CIS RIA
	µg/dl	6.30	4.72	7.88	
	nmol/l	186	140	233	Siemens Immulite 2000/2500
	µg/dl	6.70	5.04	8.36	
	nmol/l	202	152	253	Siemens Immulite 1000
	µg/dl	7.27	5.47	9.07	
	nmol/l	206	155	258	Beckman Dxl800
	µg/dl	7.42	5.58	9.26	
	nmol/l	186	140	233	Roche Elecsys
	µg/dl	6.70	5.04	8.36	
	nmol/l	264	198	330	Diasorin Liaison
	µg/dl	9.50	7.13	11.9	
	nmol/l	210	158	263	Beckman Access
	µg/dl	7.56	5.69	9.43	
	nmol/l	177	133	221	Tosoh Series
	µg/dl	6.37	4.79	7.95	
	nmol/l	157	118	196	Vitros ECi
	µg/dl	5.65	4.25	7.05	
	nmol/l	181	136	226	Roche Cobas e601/602
	µg/dl	6.52	4.90	8.14	
	nmol/l	196	147	245	Roche Cobas 4000/E411
	µg/dl	7.06	5.29	8.83	
	nmol/l	200	132	268	Siemens Centaur CP
	µg/dl	7.20	4.75	9.65	
nmol/l	195	146	244	Roche Cobas 4000/e411 Gen II	
µg/dl	7.02	5.26	8.78		
nmol/l	179	134	224	Roche Cobas e601/602 Gen II	
µg/dl	6.44	4.82	8.06		
nmol/l	193	145	241	Roche Elecsys Gen II	
µg/dl	6.95	5.22	8.68		
nmol/l	270	203	338	Diasorin Liaison XL	
µg/dl	9.72	7.31	12.1		
nmol/l	217	163	271	Siemens Atellica IM	
µg/dl	7.81	5.87	9.75		
nmol/l	179	134	224	Roche Cobas e801	
µg/dl	6.44	4.82	8.06		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	208	156	260	Abbott Alinity i
	µg/dl	7.49	5.62	9.36	
DHEA-S	µmol/l	2.76	2.21	3.31	Abbott Architect
	µmol/l	2.22	1.78	2.66	Siemens Immulite 2000/2500
	µmol/l	2.18	1.74	2.62	Siemens Immulite 1000
	µmol/l	2.76	2.21	3.31	Beckman DxI800
	µmol/l	3.62	2.90	4.34	Roche Elecsys
	µmol/l	2.93	2.34	3.52	Beckman Access
	µmol/l	2.17	1.41	2.93	Siemens Centaur XP/XPT/Classic
	µmol/l	3.57	2.86	4.28	Roche Cobas 4000/E411
	µmol/l	3.40	2.72	4.08	Roche Cobas e601/602
	µmol/l	2.23	1.78	2.68	Diasorin Liaison XL
	µmol/l	2.06	1.65	2.47	Siemens Atellica IM
µmol/l	3.32	2.66	3.98	Roche Cobas e801	
Digoxin	nmol/l	0.582	0.466	0.698	Abbott Architect (CMIA)
	ng/ml	0.455	0.364	0.546	
	nmol/l	0.632	0.506	0.758	BioMerieux Vidas
	ng/ml	0.494	0.395	0.593	
	nmol/l	0.914	0.686	1.14	Siemens Centaur XP/XPT/Classic
	ng/ml	0.714	0.536	0.892	
	nmol/l	0.779	0.623	0.935	Siemens Dimension
	ng/ml	0.608	0.487	0.729	
	nmol/l	0.614	0.491	0.737	Siemens Immulite 2000/2500
	ng/ml	0.480	0.383	0.577	
	nmol/l	0.748	0.598	0.898	Beckman DxI800
	ng/ml	0.584	0.467	0.701	
	nmol/l	0.874	0.699	1.05	Roche Integra
	ng/ml	0.683	0.546	0.820	
	nmol/l	0.824	0.659	0.989	Roche Cobas e601/602
	ng/ml	0.644	0.515	0.773	
	nmol/l	0.931	0.745	1.12	Roche Cobas 4000/E411
	ng/ml	0.727	0.582	0.872	
nmol/l	0.857	0.686	1.03	Roche Cobas e801	
ng/ml	0.669	0.536	0.802		
nmol/l	0.998	0.798	1.20	Siemens Atellica IM	
ng/ml	0.779	0.623	0.935		
nmol/l	0.714	0.571	0.857	Abbott Alinity (PETINA)	
ng/ml	0.558	0.446	0.670		
nmol/l	0.896	0.720	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	14.4	11.5	17.3	Abbott Architect
	ng/ml = µg/l	11.0	8.80	13.2	BioMerieux Vidas
	ng/ml = µg/l	12.4	9.30	15.5	Siemens Centaur XP/XPT/Classic

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	14.3	11.4	17.2	Siemens Dimension
	ng/ml = µg/l	13.2	10.6	15.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	12.7	10.2	15.2	Siemens Immulite 1000
	ng/ml = µg/l	9.93	7.94	11.9	Beckman Dxl800
	ng/ml = µg/l	16.0	12.8	19.2	Roche Elecsys/Cobas e411
	ng/ml = µg/l	12.6	10.1	15.1	Diasorin Liaison
	ng/ml = µg/l	16.2	13.0	19.4	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	9.91	7.93	11.9	Beckman Access
	ng/ml = µg/l	9.90	7.92	11.9	Tosoh Series
	ng/ml = µg/l	10.7	8.56	12.8	Vitros Eci
	ng/ml = µg/l	16.6	13.3	19.9	Roche Cobas 4000/c311
	ng/ml = µg/l	11.8	9.44	14.2	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	11.6	8.70	14.5	Siemens Centaur CP
	ng/ml = µg/l	13.1	10.5	15.7	Diasorin Liaison XL
	ng/ml = µg/l	15.3	12.2	18.4	Abbott Alinity i
	ng/ml = µg/l	12.1	9.68	14.5	Siemens Atellica IM
ng/ml = µg/l	16.0	12.8	19.2	Roche Cobas e801	
Folate	nmol/l	5.03	3.82	6.24	Abbott Architect
	ng/ml	2.22	1.68	2.76	
	nmol/l	9.35	5.14	13.6	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	4.12	2.27	5.97	
	nmol/l	4.27	3.25	5.29	Siemens Immulite 2000
	ng/ml	1.88	1.43	2.33	
	nmol/l	4.21	3.20	5.22	Beckman Dxl 600 / 800 - A14208
	ng/ml	1.86	1.41	2.31	
	nmol/l	4.34	3.30	5.38	Beckman Access
	ng/ml	1.91	1.46	2.36	
	nmol/l	7.88	5.99	9.77	Tosoh Series
	ng/ml	3.48	2.64	4.32	
	nmol/l	4.55	3.46	5.64	Vitros Eci
	ng/ml	2.01	1.53	2.49	
	nmol/l	4.22	3.21	5.23	Beckman Dxl 600 / 800 - A98032
	ng/ml	1.86	1.42	2.30	
	nmol/l	4.13	3.14	5.12	Roche Elecsys Folate
	ng/ml	1.82	1.38	2.26	
nmol/l	4.52	3.44	5.60	Roche Folate III - 07559992	
ng/ml	1.99	1.52	2.46		
nmol/l	10.4	7.90	12.9	Siemens Atellica IM	
ng/ml	4.59	3.48	5.70		
nmol/l	4.08	3.10	5.06	Roche Cobas e801	
ng/ml	1.80	1.37	2.23		
Free T3	pmol/l	5.95	4.46	7.44	Abbott Architect, 2 point calibration
	ng/dl	0.387	0.290	0.484	
	pg/ml	3.87	2.90	4.84	
	pmol/l	7.27	5.45	9.09	BioMerieux Vidas
	ng/dl	0.473	0.354	0.592	
pg/ml	4.73	3.55	5.91		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	7.29	4.37	10.2	Siemens Centaur XP/XPT/Classic
	ng/dl	0.474	0.284	0.664	
	pg/ml	4.75	2.85	6.65	
	pmol/l	6.33	4.75	7.91	Siemens Immulite 2000/2500
	ng/dl	0.411	0.309	0.513	
	pg/ml	4.12	3.09	5.15	
	pmol/l	5.66	4.25	7.08	Siemens Immulite 1000
	ng/dl	0.368	0.276	0.460	
	pg/ml	3.68	2.77	4.59	
	pmol/l	6.19	4.64	7.74	Beckman Dxl800
	ng/dl	0.402	0.302	0.502	
	pg/ml	4.03	3.02	5.04	
	pmol/l	8.25	6.19	10.3	Roche Elecsys
	ng/dl	0.536	0.402	0.670	
	pg/ml	5.37	4.03	6.71	
	pmol/l	8.01	6.01	10.0	Diasorin Liaison
	ng/dl	0.521	0.391	0.651	
	pg/ml	5.21	3.91	6.51	
	pmol/l	6.54	4.91	8.18	Beckman Access
	ng/dl	0.425	0.319	0.531	
	pg/ml	4.26	3.20	5.32	
	pmol/l	8.27	6.20	10.3	Tosoh Series
	ng/dl	0.538	0.403	0.673	
	pg/ml	5.38	4.04	6.72	
	pmol/l	17.4	13.1	21.8	Vitros ECI
	ng/dl	1.13	0.852	1.41	
	pg/ml	11.3	8.53	14.1	
	pmol/l	8.15	6.11	10.2	Roche Cobas 4000/E411
	ng/dl	0.530	0.397	0.663	
	pg/ml	5.31	3.98	6.64	
pmol/l	8.16	6.12	10.2	Roche Cobas e601/602	
ng/dl	0.530	0.398	0.662		
pg/ml	5.31	3.98	6.64		
pmol/l	7.56	4.54	10.6	Siemens Centaur CP	
ng/dl	0.491	0.295	0.687		
pg/ml	4.92	2.95	6.89		
pmol/l	7.15	5.36	8.94	Mindray CL-2000i	
ng/dl	0.465	0.348	0.582		
pg/ml	4.65	3.49	5.81		
pmol/l	8.52	6.39	10.7	Diasorin Liaison XL	
ng/dl	0.554	0.415	0.693		
pg/ml	5.55	4.16	6.94		
pmol/l	7.97	5.98	9.96	Siemens Atellica IM	
ng/dl	0.518	0.389	0.647		
pg/ml	5.19	3.89	6.49		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	6.01	4.51	7.51	Abbott Alinity, 2 point cal
	ng/dl	0.391	0.293	0.489	
	pg/ml	3.91	2.94	4.88	
	pmol/l	5.89	4.42	7.36	Abbott Architect, 6 point calibration
	ng/dl	0.383	0.287	0.479	
	pg/ml	3.83	2.88	4.78	
	pmol/l	7.94	5.96	9.93	Roche Cobas e801
	ng/dl	0.516	0.387	0.645	
	pg/ml	5.17	3.88	6.46	
	pmol/l	5.93	4.45	7.41	Abbott Alinity, 6 point cal
	ng/dl	0.385	0.289	0.481	
	pg/ml	3.86	2.90	4.82	
Free T4	pmol/l	11.8	8.85	14.8	Abbott Architect
	ng/dl	0.920	0.690	1.15	
	pg/ml	9.20	6.90	11.5	
	pmol/l	10.4	7.80	13.0	Siemens Centaur XP/XPT/Classic
	ng/dl	0.811	0.608	1.01	
	pg/ml	8.11	6.08	10.1	
	pmol/l	15.2	11.4	19.0	CIS RIA Coated tube
	ng/dl	1.19	0.889	1.49	
	pg/ml	11.9	8.89	14.9	
	pmol/l	16.3	12.2	20.4	Siemens Immulite 2000/2500
	ng/dl	1.27	0.952	1.59	
	pg/ml	12.7	9.52	15.9	
	pmol/l	15.2	11.4	19.0	Siemens Immulite 1000
	ng/dl	1.19	0.889	1.49	
	pg/ml	11.9	8.89	14.9	
	pmol/l	12.5	9.38	15.6	Beckman Dxl800
	ng/dl	0.975	0.732	1.22	
	pg/ml	9.75	7.32	12.2	
	pmol/l	16.0	12.0	20.0	Roche Elecsys
	ng/dl	1.25	0.936	1.56	
	pg/ml	12.5	9.36	15.6	
	pmol/l	16.3	12.2	20.4	Diasorin Liaison
	ng/dl	1.27	0.952	1.59	
	pg/ml	12.7	9.52	15.9	
pmol/l	13.0	9.75	16.3	Beckman Access	
ng/dl	1.01	0.761	1.26		
pg/ml	10.1	7.61	12.6		
pmol/l	13.3	9.98	16.6	Tosoh Series	
ng/dl	1.04	0.778	1.30		
pg/ml	10.4	7.78	13.0		
pmol/l	34.4	25.8	43.0	Vitros ECI	
ng/dl	2.68	2.01	3.35		
pg/ml	26.8	20.1	33.5		
pmol/l	15.7	11.8	19.6	Roche Cobas e601/602	
ng/dl	1.22	0.920	1.52		
pg/ml	12.2	9.20	15.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	15.9	11.9	19.9	Roche Cobas 4000/E411
	ng/dl	1.24	0.928	1.55	
	pg/ml	12.4	9.28	15.5	
	pmol/l	13.3	9.98	16.6	Biomerieux Vidas FT4N Kit
	ng/dl	1.04	0.778	1.30	
	pg/ml	10.4	7.78	13.0	
	pmol/l	11.3	8.48	14.1	Siemens Centaur CP
	ng/dl	0.881	0.661	1.10	
	pg/ml	8.81	6.61	11.0	
	pmol/l	13.5	10.1	16.9	Mindray CL-2000i
	ng/dl	1.05	0.788	1.31	
	pg/ml	10.5	7.88	13.1	
	pmol/l	17.1	12.8	21.4	Diasorin Liaison XL
	ng/dl	1.33	0.998	1.66	
	pg/ml	13.3	9.98	16.6	
	pmol/l	11.1	8.33	13.9	Siemens Atellica IM
	ng/dl	0.866	0.650	1.08	
	pg/ml	8.66	6.50	10.8	
FSH	pmol/l	11.7	8.78	14.6	Abbott Alinity i
	ng/dl	0.913	0.685	1.14	
	pg/ml	9.13	6.85	11.4	
	pmol/l	16.3	12.2	20.4	Roche Cobas e801
	ng/dl	1.27	0.952	1.59	
	pg/ml	12.7	9.52	15.9	
	mU/ml	6.62	5.30	7.94	Abbott Architect
	mU/ml	7.30	5.84	8.76	BioMerieux Vidas
	mU/ml	8.81	6.17	11.5	Siemens Centaur XP/XPT/Classic
	mU/ml	7.12	5.70	8.54	Siemens Immulite 2000/2500
	mU/ml	7.44	5.95	8.93	Siemens Immulite 1000
	mU/ml	7.87	6.30	9.44	Beckman Dxl800
	mU/ml	6.97	5.58	8.36	Roche/BM Elecsys
	mU/ml	10.8	8.64	13.0	Diasorin Liaison
	mU/ml	7.92	6.34	9.50	Beckman Access
	mU/ml	8.90	7.12	10.7	Tosoh Series
	mU/ml	5.66	4.53	6.79	Vitros ECi
	mU/ml	7.48	5.98	8.98	Roche Cobas 4000/E411
	mU/ml	6.79	5.43	8.15	Roche Cobas e601/602
	mU/ml	6.34	5.07	7.61	Fujirebio Lumipulse G Series
	mU/ml	6.67	4.67	8.67	Siemens Centaur CP
mU/ml	8.21	6.57	9.85	Mindray CL-2000i	
mU/ml	12.2	9.76	14.6	Diasorin Liaison XL	
mU/ml	8.84	7.07	10.6	Siemens Atellica IM	
mU/ml	6.91	5.53	8.29	Abbott Alinity i	
mU/ml	7.10	5.68	8.52	Roche Cobas e801	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Gentamicin	µmol/l	5.02	4.02	6.02	Roche Integra
	µg/ml	2.40	1.92	2.88	
	µmol/l	4.57	3.29	5.85	Siemens Centaur XP/XPT/Classic
	µg/ml	2.18	1.57	2.79	
	µmol/l	4.81	3.85	5.77	Abbott Architect (CMIA)
	µg/ml	2.30	1.84	2.76	
	µmol/l	3.89	3.11	4.67	Roche Cobas 6000/8000 Online KIMS
	µg/ml	1.86	1.49	2.23	
	µmol/l	4.35	3.48	5.22	Roche Cobas 6000/8000 CEDIA
	µg/ml	2.08	1.66	2.50	
	µmol/l	5.73	4.58	6.88	EMIT
	µg/ml	2.74	2.19	3.29	
Growth Hormone (GH)	µU/ml	4.24	3.39	5.09	Siemens Immulite 2000/2500
	ng/ml	1.41	1.13	1.69	
	µU/ml	4.09	3.27	4.91	Siemens Immulite 1000
	ng/ml	1.36	1.09	1.63	
	µU/ml	2.98	2.38	3.58	Beckman DxI800
	ng/ml	0.992	0.793	1.19	
	µU/ml	3.27	2.62	3.92	Beckman Access
	ng/ml	1.09	0.872	1.31	
	µU/ml	3.52	2.82	4.22	Tosoh Series
	ng/ml	1.17	0.939	1.40	
	µU/ml	2.78	2.22	3.34	Diasorin Liaison
	ng/ml	0.926	0.739	1.11	
	µU/ml	4.04	3.23	4.85	Roche Cobas 4000/E411
	ng/ml	1.35	1.08	1.62	
	µU/ml	3.92	3.14	4.70	Roche Cobas e601/602
	ng/ml	1.31	1.05	1.57	
	µU/ml	3.69	2.95	4.43	IDS iSYS
	ng/ml	1.23	0.982	1.48	
	µU/ml	3.06	2.45	3.67	Diasorin Liaison XL
	ng/ml	1.02	0.816	1.22	
Immunoglobulin E	KIU/l = IU/ml	234	187	281	Abbott Architect
	KIU/l = IU/ml	205	164	246	BioMerieux Vidas
	KIU/l = IU/ml	258	155	361	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	259	207	311	Siemens Immulite 2000/2500
	KIU/l = IU/ml	274	219	329	Siemens Immulite 1000
	KIU/l = IU/ml	257	206	308	Roche Elecsys
	KIU/l = IU/ml	229	183	275	Pharmacia Unicap
	KIU/l = IU/ml	221	177	265	Tosoh Series

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Immunoglobulin E	KIU/l = IU/ml	258	206	310	Roche Cobas 4000/E411
	KIU/l = IU/ml	255	204	306	Roche Cobas e601/602
	KIU/l = IU/ml	243	146	340	Siemens Centaur CP
	KIU/l = IU/ml	253	202	304	Siemens Atellica IM
	KIU/l = IU/ml	261	209	313	Roche Cobas e801
	KIU/l = IU/ml	241	193	289	Abbott Alinity i
Insulin	mU/l	1.48	1.11	1.85	Siemens Centaur XP/XPT/Classic
	µU/ml	1.48	1.11	1.85	
	mU/l	1.64	1.23	2.05	Roche Elecsys
	µU/ml	1.64	1.23	2.05	
	mU/l	0.953	0.715	1.19	Beckman Access
	µU/ml	0.953	0.715	1.19	
	mU/l	1.15	0.863	1.44	Abbott Architect
	µU/ml	1.15	0.863	1.44	
	mU/l	1.77	1.33	2.21	Tosoh Series
	µU/ml	1.77	1.33	2.21	
	mU/l	1.60	1.20	2.00	Roche Cobas 4000/E411
	µU/ml	1.60	1.20	2.00	
	mU/l	0.938	0.704	1.17	Beckman Dxl 600/800
	µU/ml	0.938	0.704	1.17	
	mU/l	1.08	0.810	1.35	Diasorin Liaison
	µU/ml	1.08	0.810	1.35	
	mU/l	1.56	1.17	1.95	Roche Cobas 6000/8000
	µU/ml	1.56	1.17	1.95	
	mU/l	1.27	0.953	1.59	Fujirebio Lumipulse G Series
	µU/ml	1.27	0.953	1.59	
mU/l	1.40	1.05	1.75	Siemens Centaur CP	
µU/ml	1.40	1.05	1.75		
mU/l	1.36	1.02	1.70	Siemens Atellica IM	
µU/ml	1.36	1.02	1.70		
Luteinising Hormone (LH)	mU/ml	2.68	2.14	3.22	Abbott Architect
	mU/ml	3.46	2.77	4.15	BioMerieux Vidas
	mU/ml	3.30	2.48	4.12	Siemens Centaur XP/XPT/Classic
	mU/ml	6.33	5.06	7.60	Siemens Immulite 2000
	mU/ml	7.04	5.63	8.45	Siemens Immulite 1000
	mU/ml	2.54	2.03	3.05	Beckman Dxl800
	mU/ml	4.13	3.30	4.96	Roche Elecsys
	mU/ml	4.11	3.29	4.93	Diasorin Liaison
	mU/ml	2.53	2.02	3.04	Beckman Access
	mU/ml	2.98	2.38	3.58	Tosoh Series
	mU/ml	6.75	5.40	8.10	Vitros Eci
	mU/ml	4.25	3.40	5.10	Roche Cobas 4000/E411
	mU/ml	4.24	3.39	5.09	Roche Cobas e601/602
	mU/ml	3.30	2.64	3.96	Fujirebio Lumipulse G Series
	mU/ml	3.02	2.27	3.77	Siemens Centaur CP
	mU/ml	4.26	3.41	5.11	Mindray CL-2000i

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Luteinising Hormone (LH)	mU/ml	4.58	3.66	5.50	Diasorin Liaison XL
	mU/ml	3.28	2.62	3.94	Siemens Atellica IM
	mU/ml	2.60	2.08	3.12	Abbott Alinity i
	mU/ml	4.30	3.44	5.16	Roche Cobas e801
Oestradiol	pmol/l	227	182	272	Abbott Architect
	pg/ml	61.7	49.5	73.9	
	pmol/l	243	194	292	BioMerieux Vidas
	pg/ml	66.1	52.8	79.4	
	pmol/l	208	125	291	Siemens Centaur XP/XPT/Classic
	pg/ml	56.6	34.0	79.2	
	pmol/l	145	116	174	Beckman Dxl800
	pg/ml	39.4	31.6	47.2	
	pmol/l	179	143	215	Roche Elecsys (Estradiol II)
	pg/ml	48.7	38.9	58.5	
	pmol/l	150	120	180	Beckman Access
	pg/ml	40.8	32.6	49.0	
	pmol/l	172	138	206	Vitros ECi
	pg/ml	46.8	37.5	56.1	
	pmol/l	192	154	230	Roche Cobas e601/602 (Estradiol II)
	pg/ml	52.2	41.9	62.5	
	pmol/l	174	139	209	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	47.3	37.8	56.8	
	pmol/l	204	122	286	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	55.5	33.3	77.7	
	pmol/l	197	158	236	Tosoh (iE2-hsE2)
	pg/ml	53.6	43.0	64.2	
	pmol/l	209	125	293	Siemens Centaur CP Enhanced (eE2)
	pg/ml	56.8	34.1	79.5	
pmol/l	197	158	236	Roche Cobas e601/602 (Estradiol III)	
pg/ml	53.6	43.0	64.2		
pmol/l	177	142	212	Roche Cobas 4000/E411 (Estradiol III)	
pg/ml	48.1	38.6	57.6		
pmol/l	118	94.4	142	Diasorin Liaison XL	
pg/ml	32.1	25.7	38.5		
pmol/l	142	114	170	Beckman Access / Access 2 Sensitive B84493	
pg/ml	38.6	31.0	46.2		
pmol/l	149	119	179	Beckman Dxl600/800 Sensitive B84493	
pg/ml	40.5	32.4	48.6		
pmol/l	208	166	250	Siemens Atellica IM	
pg/ml	56.6	45.2	68.0		
pmol/l	215	172	258	Abbott Alinity i	
pg/ml	58.5	46.8	70.2		
pmol/l	185	148	222	Roche Cobas e801 (Estradiol III)	
pg/ml	50.3	40.3	60.3		
Paracetamol	mmol/l	0.164	0.131	0.197	Abbott Architect
	mg/l	24.8	19.8	29.8	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Paracetamol	mmol/l	0.158	0.126	0.190	Roche Cobas c501/502/503/701/702
	mg/l	23.9	19.1	28.7	
	mmol/l	0.169	0.135	0.203	Beckman AU Instruments
	mg/l	25.6	20.4	30.8	
	mmol/l	0.165	0.132	0.198	EMIT
	mg/l	25.0	20.0	30.0	
	mmol/l	0.162	0.130	0.194	Abbott Alinity
	mg/l	24.5	19.7	29.3	
	mmol/l	0.166	0.130	0.200	Gravimetric
	mg/l	25.1	19.7	30.3	
Phenobarbital	µmol/l	34.5	27.6	41.4	Abbott Architect (CMIA)
	µg/ml	8.00	6.40	9.60	
	µmol/l	32.5	26.0	39.0	Roche Cobas e601/602/801
	µg/ml	7.54	6.03	9.05	
	µmol/l	39.0	31.2	46.8	Siemens Immulite 2000/2500
	µg/ml	9.05	7.24	10.9	
	µmol/l	34.0	27.2	40.8	Beckman AU400/600/640/2700/5400
	µg/ml	7.89	6.31	9.47	
	µmol/l	47.6	33.3	61.9	Siemens Centaur XP/XPT/Classic
	µg/ml	11.0	7.70	14.3	
	µmol/l	34.2	27.4	41.0	Roche Integra
	µg/ml	7.93	6.36	9.50	
	µmol/l	39.6	31.7	47.5	Siemens Immulite 1000
	µg/ml	9.19	7.35	11.0	
µmol/l	35.8	28.6	43.0	Siemens Atellica CH	
µg/ml	8.31	6.64	9.98		
µmol/l	34.5	27.6	41.4	Gravimetric	
µg/ml	8.00	6.40	9.60		
Phenytoin	µmol/l	19.8	15.8	23.8	Abbott Architect
	µg/ml	5.00	3.99	6.01	
	µmol/l	20.2	15.2	25.2	Siemens Centaur XP/XPT/Classic
	µg/ml	5.10	3.83	6.37	
	µmol/l	20.5	16.4	24.6	Siemens Immulite 2000/2500
	µg/ml	5.18	4.14	6.22	
	µmol/l	19.7	15.8	23.6	Siemens Immulite 1000
	µg/ml	4.97	3.99	5.95	
	µmol/l	19.2	15.4	23.0	Roche Integra
	µg/ml	4.85	3.89	5.81	
	µmol/l	18.5	14.8	22.2	Roche Cobas 6000/8000
	µg/ml	4.67	3.74	5.60	
	µmol/l	19.5	15.6	23.4	Beckman DxC
	µg/ml	4.92	3.94	5.90	
µmol/l	19.1	15.3	22.9	EMIT	
µg/ml	4.82	3.86	5.78		
µmol/l	18.7	15.0	22.4	Abbott Alinity	
µg/ml	4.72	3.79	5.65		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Phenytoin	µmol/l	20.2	16.2	24.2	Gravimetric
	µg/ml	5.10	4.09	6.11	
Primidone	µmol/l	12.3	9.84	14.8	Gravimetric
	µg/ml	2.69	2.15	3.23	
Progesterone	nmol/l	3.75	3.00	4.50	Abbott Architect
	ng/ml	1.17	0.939	1.40	
	nmol/l	4.21	3.37	5.05	BioMerieux Vidas
	ng/ml	1.32	1.05	1.59	
	nmol/l	2.82	1.55	4.09	Siemens Centaur XP/XPT/Classic
	ng/ml	0.883	0.486	1.28	
	nmol/l	3.83	3.06	4.60	Siemens Immulite 2000/2500
	ng/ml	1.20	0.958	1.44	
	nmol/l	3.77	3.02	4.52	Siemens Immulite 1000
	ng/ml	1.18	0.945	1.42	
	nmol/l	3.97	3.18	4.76	Beckman Dxl Prog Cal 33555
	ng/ml	1.24	0.995	1.49	
	nmol/l	4.24	3.39	5.09	Roche Elecsys (Prog. II)
	ng/ml	1.33	1.06	1.60	
	nmol/l	3.95	3.16	4.74	Beckman Access Prog Cal 33555
	ng/ml	1.24	0.989	1.49	
	nmol/l	3.01	2.41	3.61	Tosoh Series
	ng/ml	0.942	0.754	1.13	
	nmol/l	3.88	3.10	4.66	Vitros Eci
	ng/ml	1.21	0.970	1.45	
	nmol/l	3.93	3.14	4.72	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	1.23	0.983	1.48	
	nmol/l	3.96	3.17	4.75	Roche Cobas e601/602 (Prog. II)
	ng/ml	1.24	0.992	1.49	
	nmol/l	2.84	2.27	3.41	Diasorin Liaison
	ng/ml	0.889	0.711	1.07	
	nmol/l	3.21	2.57	3.85	Beckman Dxl Prog DE Cal A80773
	ng/ml	1.00	0.804	1.20	
	nmol/l	3.79	3.03	4.55	Beckman Access Prog DE Cal A80773
	ng/ml	1.19	0.948	1.43	
	nmol/l	2.91	1.60	4.22	Siemens Centaur CP
	ng/ml	0.911	0.501	1.32	
nmol/l	4.01	3.21	4.81	Roche Cobas e601/602 (Prog. III)	
ng/ml	1.26	1.00	1.52		
nmol/l	3.75	3.00	4.50	Roche Elecsys (Prog. III)	
ng/ml	1.17	0.939	1.40		
nmol/l	3.96	3.17	4.75	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	1.24	0.992	1.49		
nmol/l	2.92	2.34	3.50	Diasorin Liaison XL	
ng/ml	0.914	0.732	1.10		
nmol/l	3.39	2.71	4.07	Abbott Alinity i	
ng/ml	1.06	0.848	1.27		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range						
Analyte	unit	Target	low	high	methods	
Progesterone	nmol/l	3.79	3.03	4.55	Roche Cobas e801 (Prog. III)	
	ng/ml	1.19	0.948	1.43		
Prolactin	µU/ml	124	99.0	149	Abbott Architect	
	µU/ml	98.8	79.0	119	BioMerieux Vidas	
	µU/ml	108	75.6	140	Siemens Centaur XP/XPT/Classic	
	µU/ml	102	81.6	122	Siemens Immulite 2000/2500	
	µU/ml	107	85.6	128	Siemens Immulite 1000	
	µU/ml	102	81.6	122	Beckman Dxl800	
	µU/ml	101	80.8	121	Roche Elecsys	
	µU/ml	110	88.0	132	Diasorin Liaison	
	µU/ml	108	86.4	130	Beckman Access	
	µU/ml	122	97.6	146	Tosoh Series	
	µU/ml	135	108	162	Vitros ECi	
	µU/ml	100	80.0	120	Roche Elecsys/E170/Cobas 6000/8000 PRLII	
	µU/ml	122	97.6	146	Immunotech IRMA	
	µU/ml	103	82.4	124	Roche Cobas 4000/E411	
	µU/ml	99.2	79.4	119	Roche Cobas e601/602	
	µU/ml	138	110	166	Fujirebio Lumipulse G Series	
	µU/ml	94.9	66.4	123	Siemens Centaur CP	
	µU/ml	173	138	208	Mindray CL-2000i	
	µU/ml	115	92.0	138	Diasorin Liaison XL	
	µU/ml	108	86.4	130	Siemens Atellica IM	
µU/ml	125	100	150	Abbott Alinity i		
µU/ml	98.5	78.8	118	Roche Cobas e801 PRL II		
PSA Free	ng/ml = µg/l	1.21	0.908	1.51	Abbott Architect	
	ng/ml = µg/l	1.31	0.983	1.64	Siemens Centaur XP/XPT/Classic	
	ng/ml = µg/l	1.04	0.780	1.30	Siemens Immulite 2000/2500	
	ng/ml = µg/l	1.05	0.788	1.31	Siemens Immulite 1000	
	ng/ml = µg/l	1.55	1.16	1.94	Beckman DXI standardised to Hybritech	
	ng/ml = µg/l	1.22	0.915	1.53	Roche Elecsys	
	ng/ml = µg/l	0.921	0.691	1.15	Diasorin Liaison	
	ng/ml = µg/l	1.56	1.17	1.95	Beckman Access standardised to Hybritech	
	ng/ml = µg/l	1.11	0.833	1.39	Tosoh Series	
	ng/ml = µg/l	1.20	0.900	1.50	Roche Cobas 4000/E411	
	ng/ml = µg/l	1.18	0.885	1.48	Roche Cobas e601/602	
	ng/ml = µg/l	1.34	1.01	1.68	Beckman Dxl800 standardised to WHO IRP96/670	
	ng/ml = µg/l	1.56	1.17	1.95	Beckman Access standardised to WHO IRP96/670	
	ng/ml = µg/l	1.11	0.833	1.39	Ortho Vitros 3600/5600/ECi PSA II	
	ng/ml = µg/l	0.910	0.683	1.14	Diasorin Liaison XL	
	ng/ml = µg/l	1.33	0.998	1.66	Siemens Atellica IM	
	ng/ml = µg/l	1.26	0.945	1.58	Abbott Alinity i	
	ng/ml = µg/l	1.18	0.885	1.48	Roche Cobas e801	
	PSA Total	ng/ml = µg/l	1.13	0.848	1.41	Abbott Architect
		ng/ml = µg/l	1.74	1.31	2.18	BioMerieux Vidas
ng/ml = µg/l		1.73	1.30	2.16	bioMerieux VIDAS TPSA	
ng/ml = µg/l		1.38	1.04	1.73	Siemens Centaur XP/XPT/Classic	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	1.35	1.01	1.69	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	1.43	1.07	1.79	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	1.39	1.04	1.74	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	1.14	0.855	1.43	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.48	1.11	1.85	Roche Elecsys
	ng/ml = µg/l	0.974	0.731	1.22	Diasorin Liaison
	ng/ml = µg/l	1.42	1.07	1.78	Beckman Access standardised to Hybritech
	ng/ml = µg/l	1.44	1.08	1.80	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.12	0.840	1.40	Tosoh Series
	ng/ml = µg/l	1.39	1.04	1.74	Vitros ECi
	ng/ml = µg/l	1.72	1.29	2.15	CIS RIA Coated tube
	ng/ml = µg/l	1.49	1.12	1.86	Roche Cobas 4000/E411
	ng/ml = µg/l	1.53	1.15	1.91	Roche Cobas e601/602
	ng/ml = µg/l	1.26	0.945	1.58	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	1.40	1.05	1.75	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.26	0.945	1.58	Siemens Centaur CP
	ng/ml = µg/l	0.915	0.686	1.14	Diasorin Liaison XL
	ng/ml = µg/l	1.39	1.04	1.74	Siemens Atellica IM
ng/ml = µg/l	1.22	0.915	1.53	Abbott Alinity i	
ng/ml = µg/l	1.48	1.11	1.85	Roche Cobas e801	
Salicylic Acid	mmol/l	0.348	0.278	0.418	EMIT
	mg/dl	4.81	3.84	5.78	
	mmol/l	0.272	0.220	0.330	Roche Cobas c501/502/503
	mg/dl	3.76	3.04	4.56	
	mmol/l	0.286	0.230	0.340	Gravimetric
mg/dl	3.95	3.18	4.70		
SHBG	nmol/l	9.57	7.66	11.5	Siemens Centaur XP/XPT/Classic
	nmol/l	10.8	8.64	13.0	Siemens Immulite 1000
	nmol/l	11.7	9.36	14.0	Siemens Immulite 2000/2500
	nmol/l	10.9	8.72	13.1	Abbott Architect
	nmol/l	10.7	8.56	12.8	Beckman Dxl800
	nmol/l	9.43	7.54	11.3	Siemens Atellica IM
	nmol/l	10.5	8.40	12.6	Roche analysers - 413417/15
	nmol/l	11.0	8.80	13.2	Roche Cobas e801 - 413429
nmol/l	11.1	8.88	13.3	Abbott Alinity i	
T Uptake	%U	32.5	26.7	38.4	Siemens Immulite 2000
Testosterone	nmol/l	2.65	2.12	3.18	Abbott Architect
	ng/ml	0.763	0.611	0.915	
	ng/dl	76.3	61.1	91.5	
	nmol/l	1.81	1.45	2.17	BioMerieux Vidas
	ng/ml	0.521	0.418	0.624	
	ng/dl	52.1	41.8	62.4	
	nmol/l	2.50	1.63	3.37	Siemens Centaur XP/XPT/Classic
	ng/ml	0.720	0.468	0.972	
	ng/dl	72.0	46.8	97.2	
	nmol/l	2.61	2.09	3.13	Siemens Immulite 2000/2500
ng/ml	0.752	0.602	0.902		
ng/dl	75.2	60.2	90.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	2.67	2.14	3.20	Beckman DxI800
	ng/ml	0.769	0.616	0.922	
	ng/dl	76.9	61.6	92.2	
	nmol/l	2.86	2.29	3.43	Beckman Access
	ng/ml	0.824	0.660	0.988	
	ng/dl	82.4	66.0	98.8	
	nmol/l	1.90	1.52	2.28	Tosoh Series
	ng/ml	0.547	0.438	0.656	
	ng/dl	54.7	43.8	65.6	
	nmol/l	1.98	1.58	2.38	Vitros ECI
	ng/ml	0.570	0.455	0.685	
	ng/dl	57.0	45.5	68.5	
	nmol/l	3.11	2.49	3.73	Roche Cobas e601/602 Test II
	ng/ml	0.896	0.717	1.08	
	ng/dl	89.6	71.7	108	
	nmol/l	3.06	2.45	3.67	Roche Elecsys Test II
	ng/ml	0.881	0.706	1.06	
	ng/dl	88.1	70.6	106	
	nmol/l	3.12	2.50	3.74	Roche Cobas 4000/e411 Test II
	ng/ml	0.899	0.720	1.08	
	ng/dl	89.9	72.0	108	
	nmol/l	2.64	2.11	3.17	Abbott Architect 2nd Generation
	ng/ml	0.760	0.608	0.912	
	ng/dl	76.0	60.8	91.2	
nmol/l	1.80	1.44	2.16	BioMerieux Vidas Testosterone II	
ng/ml	0.518	0.415	0.621		
ng/dl	51.8	41.5	62.1		
nmol/l	2.70	2.16	3.24	Mindray CL-2000i	
ng/ml	0.778	0.622	0.934		
ng/dl	77.8	62.2	93.4		
nmol/l	2.56	1.66	3.46	Siemens Centaur TST II	
ng/ml	0.737	0.479	0.995		
ng/dl	73.7	47.9	99.5		
nmol/l	2.13	1.70	2.56	Siemens Atellica IM	
ng/ml	0.613	0.490	0.736		
ng/dl	61.3	49.0	73.6		
nmol/l	3.12	2.50	3.74	Roche Cobas e801 Test II	
ng/ml	0.899	0.720	1.08		
ng/dl	89.9	72.0	108		
nmol/l	2.71	2.17	3.25	Abbott Alinity i	
ng/ml	0.780	0.625	0.935		
ng/dl	78.0	62.5	93.5		
Theophylline	µmol/l	29.8	20.9	38.7	Siemens Centaur XP/XPT/Classic
	µg/ml	5.37	3.76	6.98	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Theophylline	µmol/l	30.2	24.2	36.2	Roche Integra
	µg/ml	5.44	4.36	6.52	
	µmol/l	24.8	19.8	29.8	Abbott Architect (CMIA)
	µg/ml	4.47	3.57	5.37	
	µmol/l	27.6	22.1	33.1	Roche Cobas 6000/8000
	µg/ml	4.97	3.98	5.96	
	µmol/l	27.0	21.6	32.4	Beckman AU400/600/640/2700/5400
	µg/ml	4.87	3.89	5.85	
	µmol/l	28.3	22.6	34.0	Gravimetric
	µg/ml	5.10	4.07	6.13	
Thyroglobulin	ng/ml	2.24	1.68	2.80	Roche Elecsys
	ng/ml	1.34	1.01	1.68	Beckman Dxl800
	ng/ml	2.12	1.59	2.65	Roche Cobas 4000/E411
	ng/ml	2.17	1.63	2.71	Roche Cobas e601/602
	ng/ml	1.45	1.09	1.81	Beckman Access
	ng/ml	1.74	1.31	2.18	Abbott Architect 2000i
	ng/ml	2.20	1.65	2.75	Tosoh Series
	ng/ml	2.14	1.61	2.68	Roche Cobas e601/602 Tg II
	ng/ml	2.15	1.61	2.69	Roche Elecsys TGII
	ng/ml	2.19	1.64	2.74	Roche Cobas 4000/E411 TGII
	ng/ml	2.39	1.79	2.99	Roche Cobas e801 Tg II
ng/ml	1.72	1.29	2.15	Abbott Alinity i	
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.088	0.070	0.106	Abbott Architect
	µU/ml = mIU/l	0.061	0.049	0.073	bioMerieux VIDAS TSH
	µU/ml = mIU/l	0.060	0.048	0.072	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	0.091	0.062	0.120	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	0.118	0.094	0.142	Siemens Immulite 1000
	µU/ml = mIU/l	0.083	0.066	0.100	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	0.081	0.065	0.097	Beckman Dxl800
	µU/ml = mIU/l	0.130	0.104	0.156	Roche Elecsys
	µU/ml = mIU/l	0.145	0.116	0.174	Diasorin Liaison
	µU/ml = mIU/l	0.079	0.063	0.095	Beckman Access Fast TSH
	µU/ml = mIU/l	0.082	0.066	0.098	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	0.130	0.104	0.156	Tosoh Series
	µU/ml = mIU/l	0.086	0.069	0.103	Vitros ECi
	µU/ml = mIU/l	0.131	0.105	0.157	Roche Cobas 4000/E411
	µU/ml = mIU/l	0.130	0.104	0.156	Roche Cobas e601/602
	µU/ml = mIU/l	0.083	0.066	0.100	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	0.088	0.060	0.116	Siemens Centaur CP
	µU/ml = mIU/l	0.092	0.063	0.121	Siemens Centaur CP TSH3-Ultra
µU/ml = mIU/l	0.121	0.097	0.145	Mindray CL-2000i	
µU/ml = mIU/l	0.081	0.065	0.097	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	0.138	0.110	0.166	Diasorin Liaison XL	
µU/ml = mIU/l	0.092	0.074	0.110	Siemens Atellica IM	

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.088	0.070	0.106	Abbott Alinity i
	µU/ml = mIU/l	0.113	0.090	0.136	Roche Cobas e801
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	20.1	16.1	24.1	Abbott Architect
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	14.7	8.82	20.6	Siemens Centaur XP/XPT/Classic
	IU/ml	0.015	0.009	0.021	
	mU/ml=IU/l	37.2	29.8	44.6	Siemens Immulite 2000
	IU/ml	0.037	0.030	0.044	
	mU/ml=IU/l	30.4	24.3	36.5	Siemens Immulite 1000
	IU/ml	0.030	0.024	0.036	
	mU/ml=IU/l	32.9	26.3	39.5	Beckman DxI800
	IU/ml	0.033	0.026	0.040	
	mU/ml=IU/l	18.7	15.0	22.4	Diasorin Liaison
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	20.0	16.0	24.0	Roche Cobas Core EIA
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	31.0	24.8	37.2	Beckman Access
	IU/ml	0.031	0.025	0.037	
	mU/ml=IU/l	18.1	14.5	21.7	Tosoh Series
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	7.87	6.30	9.44	Vitros ECi
	IU/ml	0.008	0.006	0.010	
	mU/ml=IU/l	3.29	2.63	3.95	Roche hCG STAT (Intact)
	IU/ml	0.003	0.003	0.003	
	mU/ml=IU/l	20.2	16.2	24.2	Roche hCG+Beta
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	31.8	25.4	38.2	Beckman Access Total BhCG (5th IS)
	IU/ml	0.032	0.025	0.039	
	mU/ml=IU/l	32.8	26.2	39.4	Beckman DxI Total BhCG (5th IS)
	IU/ml	0.033	0.026	0.040	
	mU/ml=IU/l	13.0	7.80	18.2	Siemens Centaur CP
	IU/ml	0.013	0.008	0.018	
	mU/ml=IU/l	19.7	15.8	23.6	Diasorin Liaison XL
	IU/ml	0.020	0.016	0.024	
mU/ml=IU/l	12.7	10.2	15.2	Siemens Atellica IM	
IU/ml	0.013	0.010	0.016		
mU/ml=IU/l	20.0	16.0	24.0	Abbott Alinity i	
IU/ml	0.020	0.016	0.024		
mU/ml=IU/l	20.1	16.1	24.1	Roche hCG+Beta e801	
IU/ml	0.020	0.016	0.024		
Total T3	nmol/l	1.66	1.25	2.08	Abbott Architect
	ng/ml	1.08	0.814	1.35	
	ng/dl	108	81.4	135	
	nmol/l	1.54	1.16	1.93	BioMerieux Vidas
	ng/ml	1.00	0.755	1.25	
ng/dl	100	75.5	125		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	1.49	1.12	1.86	Siemens Centaur XP/XPT/Classic
	ng/ml	0.970	0.729	1.21	
	ng/dl	97.0	72.9	121	
	nmol/l	1.20	0.900	1.50	Siemens Immulite 2000/2500
	ng/ml	0.781	0.586	0.976	
	ng/dl	78.1	58.6	97.6	
	nmol/l	1.46	1.10	1.83	Siemens Immulite 1000
	ng/ml	0.950	0.716	1.18	
	ng/dl	95.0	71.6	118	
	nmol/l	1.86	1.40	2.33	Beckman Dxl800
	ng/ml	1.21	0.911	1.51	
	ng/dl	121	91.1	151	
	nmol/l	2.62	1.97	3.28	Roche Elecsys
	ng/ml	1.71	1.28	2.14	
	ng/dl	171	128	214	
	nmol/l	1.96	1.47	2.45	Beckman Access
	ng/ml	1.28	0.957	1.60	
	ng/dl	128	95.7	160	
	nmol/l	1.52	1.14	1.90	Tosoh Series
	ng/ml	0.990	0.742	1.24	
	ng/dl	99.0	74.2	124	
	nmol/l	1.83	1.37	2.29	Vitros ECi
	ng/ml	1.19	0.892	1.49	
	ng/dl	119	89.2	149	
nmol/l	0.996	0.747	1.25	CIS RIA Coated tube	
ng/ml	0.648	0.486	0.810		
ng/dl	64.8	48.6	81.0		
nmol/l	2.59	1.94	3.24	Roche Cobas 4000/E411	
ng/ml	1.69	1.26	2.12		
ng/dl	169	126	212		
nmol/l	2.45	1.84	3.06	Roche Cobas e601/602	
ng/ml	1.59	1.20	1.98		
ng/dl	159	120	198		
nmol/l	1.41	1.06	1.76	Siemens Centaur CP	
ng/ml	0.918	0.690	1.15		
ng/dl	91.8	69.0	115		
nmol/l	1.23	0.923	1.54	Diasorin Liaison XL	
ng/ml	0.801	0.601	1.00		
ng/dl	80.1	60.1	100		
nmol/l	1.65	1.24	2.06	Abbott Alinity i	
ng/ml	1.07	0.807	1.33		
ng/dl	107	80.7	133		
nmol/l	1.66	1.25	2.08	Siemens Atellica IM	
ng/ml	1.08	0.814	1.35		
ng/dl	108	81.4	135		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	2.54	1.91	3.18	Roche Cobas e801
	ng/ml	1.65	1.24	2.06	
	ng/dl	165	124	206	
Total T4	nmol/l	38.3	28.7	47.9	Abbott Architect
	µg/dl	2.99	2.24	3.74	
	ng/ml	29.9	22.4	37.4	
	nmol/l	37.7	28.3	47.1	BioMerieux Vidas
	µg/dl	2.94	2.21	3.67	
	ng/ml	29.4	22.1	36.7	
	nmol/l	28.2	19.7	36.7	Siemens Centaur XP/XPT/Classic
	µg/dl	2.20	1.54	2.86	
	ng/ml	22.0	15.4	28.6	
	nmol/l	28.3	21.2	35.4	Siemens Immulite 2000/2500
	µg/dl	2.21	1.65	2.77	
	ng/ml	22.1	16.5	27.7	
	nmol/l	31.4	23.6	39.3	Siemens Immulite 1000
	µg/dl	2.45	1.84	3.06	
	ng/ml	24.5	18.4	30.6	
	nmol/l	27.5	20.6	34.4	Beckman Dxl800
	µg/dl	2.15	1.61	2.69	
	ng/ml	21.5	16.1	26.9	
	nmol/l	41.2	30.9	51.5	Roche Elecsys
	µg/dl	3.21	2.41	4.01	
	ng/ml	32.1	24.1	40.1	
	nmol/l	29.6	22.2	37.0	Beckman Access
	µg/dl	2.31	1.73	2.89	
	ng/ml	23.1	17.3	28.9	
nmol/l	28.9	21.7	36.1	Tosoh Series	
µg/dl	2.25	1.69	2.81		
ng/ml	22.5	16.9	28.1		
nmol/l	32.0	24.0	40.0	Vitros ECi	
µg/dl	2.50	1.87	3.13		
ng/ml	25.0	18.7	31.3		
nmol/l	31.0	23.3	38.8	CIS RIA Coated tube	
µg/dl	2.42	1.82	3.02		
ng/ml	24.2	18.2	30.2		
nmol/l	43.5	32.6	54.4	Roche Cobas 4000/E411	
µg/dl	3.39	2.54	4.24		
ng/ml	33.9	25.4	42.4		
nmol/l	41.3	31.0	51.6	Roche Cobas e601/602	
µg/dl	3.22	2.42	4.02		
ng/ml	32.2	24.2	40.2		
nmol/l	29.3	22.0	36.6	Immunotech IRMA	
µg/dl	2.29	1.72	2.86		
ng/ml	22.9	17.2	28.6		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	35.2	26.4	44.0	ELISA
	µg/dl	2.75	2.06	3.44	
	ng/ml	27.5	20.6	34.4	
	nmol/l	27.6	19.3	35.9	Siemens Centaur CP
	µg/dl	2.15	1.51	2.79	
	ng/ml	21.5	15.1	27.9	
	nmol/l	37.6	28.2	47.0	Diasorin Liaison XL
	µg/dl	2.93	2.20	3.66	
	ng/ml	29.3	22.0	36.6	
	nmol/l	36.6	27.5	45.8	Abbott Alinity i
	µg/dl	2.85	2.15	3.55	
	ng/ml	28.5	21.5	35.5	
	nmol/l	29.2	21.9	36.5	Siemens Atellica IM
	µg/dl	2.28	1.71	2.85	
	ng/ml	22.8	17.1	28.5	
nmol/l	37.9	28.4	47.4	Roche Cobas e801	
µg/dl	2.96	2.22	3.70		
ng/ml	29.6	22.2	37.0		
Valproic Acid	µmol/l	222	178	266	Abbott Architect (CMIA)
	µg/ml	32.0	25.7	38.3	
	µmol/l	222	155	289	Siemens Centaur XP/XPT/Classic
	µg/ml	32.0	22.4	41.6	
	µmol/l	202	162	242	Siemens Dimension
	µg/ml	29.1	23.4	34.8	
	µmol/l	195	156	234	Siemens Immulite 2000/2500
	µg/ml	28.1	22.5	33.7	
	µmol/l	190	152	228	Siemens Immulite 1000
	µg/ml	27.4	21.9	32.9	
	µmol/l	205	164	246	Roche Integra
	µg/ml	29.6	23.7	35.5	
	µmol/l	179	143	215	Vitros
	µg/ml	25.8	20.6	31.0	
	µmol/l	206	165	247	Roche Cobas 6000/8000
	µg/ml	29.7	23.8	35.6	
	µmol/l	195	156	234	Beckman DxC
	µg/ml	28.1	22.5	33.7	
	µmol/l	222	178	266	Beckman AU400/600/640/2700/5400
	µg/ml	32.0	25.7	38.3	
	µmol/l	188	150	226	Abbott Architect (PETINA)
µg/ml	27.1	21.6	32.6		
µmol/l	235	188	282	EMIT	
µg/ml	33.9	27.1	40.7		
µmol/l	213	170	256	Siemens Atellica CH	
µg/ml	30.7	24.5	36.9		
µmol/l	192	154	230	Abbott Alinity (PETINA)	
µg/ml	27.7	22.2	33.2		

IMMUNOASSAY PREMIUM PLUS LEVEL 1 (IA PREMIUM PLUS 1)

Cat. No. IA3109 / IA3112 Lot. No. 2024EC Size 12 x 5 ml / 4 x 5ml Expiry 2023-11-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	243	194	292	Gravimetric
	µg/ml	35.1	28.0	42.1	
Vancomycin	µmol/l	3.77	3.02	4.52	Roche Integra
	µg/ml	5.60	4.49	6.71	
	µmol/l	3.30	2.64	3.96	Abbott Architect (CMIA)
	µg/ml	4.90	3.92	5.88	
	µmol/l	2.16	1.62	2.70	Siemens Centaur XP/XPT/Classic
	µg/ml	3.21	2.41	4.01	
	µmol/l	3.17	2.54	3.80	Siemens Dimension
	µg/ml	4.71	3.77	5.65	
	µmol/l	3.18	2.54	3.82	Roche Cobas 6000/8000
	µg/ml	4.72	3.77	5.67	
	µmol/l	3.07	2.46	3.68	Thermo Scientific QMS Vancomycin
	µg/ml	4.56	3.65	5.47	
	µmol/l	3.28	2.62	3.94	Siemens Atellica CH
	µg/ml	4.87	3.89	5.85	
	µmol/l	3.25	2.60	3.90	Abbott Alinity (PETINA)
	µg/ml	4.83	3.86	5.80	
Vitamin B12	µmol/l	3.43	2.74	4.12	Gravimetric
	µg/ml	5.10	4.07	6.12	
	pmol/l	156	125	187	Abbott Architect
	pg/ml	211	169	253	
	pmol/l	147	103	191	Siemens Centaur XP/XPT/Classic
	pg/ml	199	139	259	
	pmol/l	120	96.0	144	Siemens Immulite 2000
	pg/ml	163	130	196	
	pmol/l	104	83.2	125	Beckman DxI800
	pg/ml	141	113	169	
	pmol/l	185	148	222	Roche Elecsys
	pg/ml	251	201	301	
	pmol/l	110	88.0	132	Beckman Access
	pg/ml	149	119	179	
	pmol/l	156	125	187	Tosoh Series
	pg/ml	211	169	253	
	pmol/l	155	124	186	Vitros ECI
	pg/ml	210	168	252	
	pmol/l	190	152	228	Roche Cobas 4000/e411 Gen II
	pg/ml	257	206	308	
pmol/l	169	135	203	Roche Cobas e601/602 Gen II	
pg/ml	229	183	275		
pmol/l	172	138	206	Siemens Atellica IM	
pg/ml	233	187	279		
pmol/l	229	183	275	Abbott Alinity i	
pg/ml	310	248	372		
pmol/l	155	124	186	Roche Cobas e801 Gen II	
pg/ml	210	168	252		

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS - LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109 / IA3112
Lot No. 2024EC
GTIN: 05055273207255 / 05055273207286**

COMPONENT	UNITS	TARGET	RANGE	METHOD
DHEA - S	µmol/l	2.72	2.18 – 3.26	Abbott Alinity i

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

05 Aug '21 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS – LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109 / IA3112
GTIN. 05055273207255 / 05055273207286
Lot No. 2024EC**

COMPONENT	UNITS	TARGET	RANGE	METHOD
C-Peptide	nmol/l	0.795	0.596 – 0.994	Ortho Vitros ECi
	ng/ml	2.40	1.80 – 3.00	
Insulin	mU/l	<1.00	- - -	Ortho Vitros ECi
	µU/ml	<1.00	- - -	

EC REP

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

23 Mar '21 me

**ADDITIONAL VALUES FOR
IMMUNOASSAY PREMIUM PLUS – LEVEL I
(IA PREMIUM PLUS I)
Cat No. IA3109/IA3112
Lot No. 2024EC
GTIN: 05055273207255 / 05055273207286**

Analyte	Unit	Target	Low	High	Method
17-OH Progesterone	nmol/l	2.82	1.97	3.66	Snibe Maglumi
	ng/ml	0.933	0.653	1.21	
Alpha-fetoprotein	KIU/l = IU/ml	10.8	7.56	14.0	Snibe Maglumi
	ng/ml	13.1	9.15	16.9	
Androstenedione	nmol/l	7.94	5.57	10.3	Snibe Maglumi
	ng/ml	2.28	1.60	2.96	
Beta-2-microglobulin	µg/ml = mg/l	0.636	0.445	0.827	Snibe Maglumi
C-Peptide	nmol/l	0.888	0.623	1.15	Snibe Maglumi
	ng/ml	2.68	1.88	3.48	
CA 19-9	U/ml	13.8	9.66	17.9	Snibe Maglumi
CA125	U/ml	19.5	13.7	25.4	Snibe Maglumi
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	5.47	3.83	7.11	Snibe Maglumi
Cortisol	nmol/l	2944	2061	3833	Snibe Maglumi
	µg/dl	106	74.2	138	
Digoxin	nmol/l	0.466	0.327	0.606	Snibe Maglumi
	ng/ml	0.364	0.255	0.473	
Ferritin	ng/ml = µg/l	12.6	8.82	16.4	Snibe Maglumi
Free T3	pmol/l	4.92	3.44	6.39	Snibe Maglumi
	ng/dl	0.320	0.224	0.416	
	pg/ml	3.20	2.24	4.16	
Free T4	pmol/l	17.6	12.3	22.8	Snibe Maglumi
	ng/dl	1.37	0.959	1.78	
	pg/ml	13.7	9.59	17.8	
FSH	mU/ml	8.29	5.80	10.8	Snibe Maglumi
Immunoglobulin E	KIU/l = IU/ml	217	152	282	Snibe Maglumi
Insulin	mU/l	1.95	1.37	2.54	Snibe Maglumi
	µU/ml	1.95	1.37	2.54	
Luteinising Hormone (LH)	mU/ml	5.44	3.81	7.07	Snibe Maglumi
Oestradiol	pmol/l	221	155	287	Snibe Maglumi
	pg/ml	60.1	42.1	78.1	
Progesterone	nmol/l	2.79	1.95	3.61	Snibe Maglumi
	ng/ml	0.872	0.610	1.13	
Prolactin	µU/ml	108	75.6	140	Snibe Maglumi
PSA Free	ng/ml = µg/l	1.60	0.742	1.38	Snibe Maglumi
PSA Total	ng/ml = µg/l	1.25	0.875	1.63	Snibe Maglumi

Analyte	Unit	Target	Low	High	Method
Testosterone	nmol/l	0.910	0.635	1.18	Snibe Maglumi
	ng/ml	0.262	0.183	0.341	
	ng/dl	7.55	5.27	9.82	
Thyroid Stimulating Hormone	μU/ml = mIU/l	<0.100	---	---	Snibe Maglumi
Total T3	nmol/l	0.896	0.627	1.16	Snibe Maglumi
	ng/ml	0.583	0.408	0.758	
	ng/dl	58.3	40.8	75.8	
Total T4	nmol/l	46.0	32.2	59.9	Snibe Maglumi
	μg/dl	3.59	2.51	4.67	
	ng/ml	35.9	25.1	46.7	

EC REP

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

12 Aug '21 me

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

Cat. No. IA3109 / IA3112		Lot No. 2024EC		Size: 12 x 5ml / 4 x 5ml		Expiry: 2023-11-28	
Analyte	unit	Target	Range		methods		
			low	high			
Alpha-fetoprotein	ng/ml	11.23	8.19	14.26	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	10.94	7.99	13.90	Mindray CL-900i		
CA 15-3	U/ml	11.91	8.70	15.13	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	U/ml	11.73	8.56	14.89	Mindray CL-900i		
CA 19-9	U/ml	18.53	13.53	23.54	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	U/ml	19.68	14.37	24.99	Mindray CL-900i		
CA125	U/ml	11.50	8.39	14.60	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	U/ml	11.39	8.31	14.46	Mindray CL-900i		
Carcinoembryonic Antigen (CEA)	ng/ml = µg/l	3.93	2.87	4.98	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml = µg/l	3.95	2.88	5.02	Mindray CL-900i		
Cortisol	µg/dL	7.12	4.98	9.26	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	µg/dL	6.96	4.87	9.05	Mindray CL-900i		
DHEA-S	µg/dl	103.26	70.22	136.30	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	µg/dl	101.23	68.84	133.63	Mindray CL-900i		
E2	pg/ml	43.34	31.64	55.04	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	pg/ml	39.34	28.72	49.96	Mindray CL-900i		
E3	ng/ml	0.78	0.57	0.99	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	0.72	0.53	0.92	Mindray CL-900i		
Ferritin	ng/ml = µg/l	12.03	8.42	15.64	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml = µg/l	12.12	8.48	15.75	Mindray CL-900i		
Folate	ng/ml	3.90	2.65	5.15	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	3.69	2.51	4.87	Mindray CL-900i		
Insulin	µIU/ml	1.76	1.19	2.32	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	µIU/ml	1.76	1.20	2.33	Mindray CL-900i		
LH	mIU/ml	4.18	3.05	5.30	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	mIU/ml	4.29	3.13	5.45	Mindray CL-900i		
Progesterone	ng/ml	1.21	0.82	1.60	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	1.14	0.77	1.50	Mindray CL-900i		
Prolactin	ng/ml	7.65	5.58	9.71	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	7.84	5.72	9.96	Mindray CL-900i		
PSA Free	ng/ml = µg/l	1.18	0.86	1.50	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml = µg/l	1.22	0.89	1.55	Mindray CL-900i		
PSA Total	ng/ml = µg/l	1.60	1.09	2.11	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml = µg/l	1.64	1.11	2.16	Mindray CL-900i		
Testosterone	ng/ml	0.74	0.54	0.94	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	0.73	0.53	0.93	Mindray CL-900i		
Tg	ng/ml	0.38	0.26	0.50	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	ng/ml	0.40	0.27	0.53	Mindray CL-900i		
Total Beta hCG	mIU/ml=IU/l	25.29	18.46	32.12	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	mIU/ml=IU/l	25.85	18.87	32.83	Mindray CL-900i		
VB12	pg/mL	251.83	183.83	319.82	Mindray CL-1000i,CL-1200i,CL-2000i,CL-6000i		
	pg/mL	278.55	167.13	389.97	Mindray CL-900i		