

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. 2074EC	EXPIRY: 2024-07-28	

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.

- 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.

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

Rev. 28 Sep '21 me

AAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
17-OH-Progesterone	nmol/l	2.49	1.87	3.11	Immunotech RIA
	ng/ml	0.824	0.619	1.03	
	nmol/l	3.58	2.69	4.48	DRG ELISA
	ng/ml	1.18	0.890	1.47	
25-OH Vitamin D	nmol/l	49.3	37.0	61.6	Diasorin Liaison
	nmol/l	35.3	26.5	44.1	Siemens Centaur XP/XPT/Classic
	nmol/l	19.2	14.4	24.0	Abbott Architect (3L52)
	nmol/l	88.1	66.1	110	Vitros ECi
	nmol/l	33.2	24.9	41.5	Tosoh Series
	nmol/l	26.2	19.7	32.8	BioMerieux Vidas
	nmol/l	41.2	30.9	51.5	Beckman Dxl 600/800
	nmol/l	20.4	15.3	25.5	Fujirebio Lumipulse G Series
	nmol/l	40.9	30.7	51.1	Beckman Access 25 OH Vitamin D Total
	nmol/l	18.9	14.2	23.6	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	55.3	41.5	69.1	Diasorin Liaison XL
	nmol/l	19.7	14.8	24.6	Roche Vitamin D Total II
	nmol/l	19.2	14.4	24.0	Abbott Alinity i
	nmol/l	25.3	19.0	31.6	Siemens Atellica IM
nmol/l	18.9	14.2	23.6	Roche Vitamin D Total II e801	
ACTH	pmol/l	14.1	10.6	17.6	Siemens Immulite 2000/2500
	pg/ml	64.1	48.2	80.0	
	pmol/l	22.2	16.7	27.8	Roche Cobas 4000/E411
	pg/ml	101	75.9	126	
	pmol/l	23.0	17.3	28.8	Roche Cobas e601/602
	pg/ml	105	78.6	131	
	pmol/l	44.5	33.4	55.6	CIS IRMA
	pg/ml	202	152	252	
	pmol/l	14.7	11.0	18.4	Siemens Immulite 1000
	pg/ml	66.8	50.0	83.6	
Alphafoetoprotein	pmol/l	28.1	21.1	35.1	Diasorin Liaison XL
	pg/ml	128	95.9	160	
	pmol/l	21.6	16.2	27.0	Roche Cobas e801
	pg/ml	98.2	73.6	123	
	KIU/l = IU/ml	7.80	6.24	9.36	Abbott Architect
		ng/ml	9.44	7.55	
	KIU/l = IU/ml	8.25	6.60	9.90	BioMerieux Vidas
		ng/ml	9.98	7.99	
	KIU/l = IU/ml	9.49	7.59	11.4	Siemens Centaur XP/XPT/Classic
		ng/ml	11.5	9.18	
KIU/l = IU/ml	8.48	6.78	10.2	Siemens Immulite 2000/2500	
	ng/ml	10.3	8.20		12.4
KIU/l = IU/ml	8.41	6.73	10.1	Beckman Dxl800	
	ng/ml	10.2	8.14		12.3

AAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	8.85	7.08	10.6	Roche Elecsys
	ng/ml	10.7	8.57	12.8	
	KIU/l = IU/ml	8.09	6.47	9.71	Diasorin Liaison
	ng/ml	9.79	7.83	11.8	
	KIU/l = IU/ml	8.16	6.53	9.79	Beckman Access
	ng/ml	9.87	7.90	11.8	
	KIU/l = IU/ml	9.04	7.23	10.8	Tosoh Series
	ng/ml	10.9	8.75	13.1	
	KIU/l = IU/ml	8.53	6.82	10.2	Vitros ECI
	ng/ml	8.87	7.10	10.6	
	KIU/l = IU/ml	9.00	7.20	10.8	Roche Cobas e601/602
	ng/ml	10.9	8.71	13.1	
	KIU/l = IU/ml	17.1	13.7	20.5	CIS IRMA
	ng/ml	20.7	16.6	24.8	
	KIU/l = IU/ml	8.81	7.05	10.6	Roche Cobas 4000/E411
	ng/ml	10.7	8.53	12.9	
	KIU/l = IU/ml	8.85	7.08	10.6	Fujirebio Lumipulse G Series
	ng/ml	10.7	8.57	12.8	
KIU/l = IU/ml	8.88	7.10	10.7	Siemens Centaur CP	
ng/ml	10.7	8.59	12.8		
KIU/l = IU/ml	9.79	7.83	11.7	Diasorin Liaison XL	
ng/ml	11.8	9.47	14.1		
KIU/l = IU/ml	9.37	7.50	11.2	Siemens Atellica IM	
ng/ml	11.3	9.08	13.5		
KIU/l = IU/ml	7.78	6.22	9.34	Abbott Alinity i	
ng/ml	9.41	7.53	11.3		
KIU/l = IU/ml	8.79	7.03	10.5	Roche Cobas e801	
ng/ml	10.6	8.51	12.7		
Amikacin	µmol/l	6.37	5.10	7.64	Roche Cobas 6000/8000
	µg/ml	3.73	2.99	4.47	
	µmol/l	6.42	5.14	7.70	Thermo Scientific QMS Amikacin
	µg/ml	3.76	3.01	4.51	
	µmol/l	6.41	5.13	7.69	Abbott Alinity
	µg/ml	3.75	3.00	4.50	
Androstenedione	µmol/l	6.40	5.12	7.68	Gravimetric
	µg/ml	3.75	3.00	4.50	
	nmol/l	3.49	2.62	4.36	Beckman Coulter RIA
	ng/ml	1.00	0.752	1.25	
	nmol/l	6.37	4.78	7.96	Siemens Immulite 2000
	ng/ml	1.83	1.37	2.29	
Beta-2-microglobulin	nmol/l	5.95	4.46	7.44	Diasorin Liaison XL
	ng/ml	1.71	1.28	2.14	
	µg/ml = mg/l	1.04	0.832	1.25	Abbott Architect
	µg/ml = mg/l	1.17	0.936	1.40	BioMerieux Vidas
	µg/ml = mg/l	1.01	0.808	1.21	Behring Nephelometer

AAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods
			low	high	
Beta-2-microglobulin	µg/ml = mg/l	1.00	0.800	1.20	Siemens Immulite 2000/2500
	µg/ml = mg/l	1.17	0.936	1.40	Tosoh Series
	µg/ml = mg/l	1.19	0.952	1.43	Roche Cobas 6000/8000
	µg/ml = mg/l	0.865	0.692	1.04	Diasorin Liaison XL
	µg/ml = mg/l	1.02	0.816	1.22	Siemens Atellica CH
	µg/ml = mg/l	1.07	0.856	1.28	Abbott Alinity
C-Peptide	nmol/l	0.647	0.485	0.809	Siemens Immulite 2000/2500
	ng/ml	1.95	1.46	2.44	
	nmol/l	0.825	0.619	1.030	Roche Elecsys
	ng/ml	2.49	1.87	3.11	
	nmol/l	0.832	0.624	1.040	Roche Cobas e601/602
	ng/ml	2.51	1.88	3.14	
	nmol/l	0.859	0.644	1.070	Diasorin Liaison
	ng/ml	2.59	1.94	3.24	
	nmol/l	0.843	0.632	1.050	Roche Cobas 4000/E411
	ng/ml	2.55	1.91	3.19	
	nmol/l	0.731	0.548	0.914	Abbott Architect
	ng/ml	2.21	1.65	2.77	
	nmol/l	0.549	0.412	0.686	Siemens Centaur XP/XPT/Classic
	ng/ml	1.66	1.24	2.08	
	nmol/l	0.721	0.541	0.901	Tosoh Series
	ng/ml	2.18	1.63	2.73	
	nmol/l	0.868	0.651	1.090	Diasorin Liaison XL
	ng/ml	2.62	1.97	3.27	
	nmol/l	0.813	0.610	1.020	Roche Cobas e801
	ng/ml	2.45	1.84	3.06	
nmol/l	0.512	0.384	0.640	Siemens Atellica IM	
ng/ml	1.55	1.16	1.94		
nmol/l	0.728	0.546	0.910	Abbott Alinity i	
ng/ml	2.20	1.65	2.75		
CA 15-3	U/ml	26.0	20.8	31.2	Abbott Architect
	U/ml	21.3	17.0	25.6	BioMerieux Vidas
	U/ml	21.6	17.3	25.9	Siemens Centaur XP/XPT/Classic
	U/ml	20.3	16.2	24.4	Siemens Immulite 2000/2500
	U/ml	9.41	7.53	11.3	Beckman Dxl800
	U/ml	23.2	18.6	27.8	Roche Elecsys
	U/ml	9.26	7.41	11.1	Beckman Access
	U/ml	23.6	18.9	28.3	Tosoh Series
	U/ml	17.5	14.0	21.0	Vitros ECi
	U/ml	22.9	18.3	27.5	Roche Cobas e601/602
	U/ml	22.8	18.2	27.4	Roche Cobas 4000/E411
	U/ml	26.8	21.4	32.2	Fujirebio Lumipulse G Series
	U/ml	22.7	18.2	27.2	Siemens Centaur CP
	U/ml	11.4	9.12	13.7	Mindray CL-2000i
	U/ml	21.0	16.8	25.2	Diasorin Liaison XL
U/ml	23.2	18.6	27.8	Siemens Atellica IM	

AAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'k

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
CA 15-3	U/ml	21.5	17.2	25.8	Roche Cobas e801
	U/ml	25.4	20.3	30.5	Abbott Alinity i
CA 19-9	U/ml	24.6	19.7	29.5	BioMerieux Vidas
	U/ml	29.5	23.6	35.4	Siemens Centaur XP/XPT/Classic
	U/ml	76.0	60.8	91.2	Siemens Immulite 2000/2500
	U/ml	76.3	61.0	91.6	Beckman Dxl800
	U/ml	25.6	20.5	30.7	Roche Elecsys
	U/ml	43.5	34.8	52.2	Diasorin Liaison
	U/ml	83.9	67.1	101	Beckman Access
	U/ml	30.9	24.7	37.1	Tosoh Series
	U/ml	43.5	34.8	52.2	Vitros Eci
	U/ml	48.7	39.0	58.4	Abbott Architect XR/XR2/XRL
	U/ml	25.3	20.2	30.4	Roche Cobas e601/602
	U/ml	25.4	20.3	30.5	Roche Cobas 4000/E411
	U/ml	42.1	33.7	50.5	Fujirebio Lumipulse G Series
	U/ml	30.6	24.5	36.7	Siemens Centaur CP
	U/ml	16.6	13.3	19.9	Mindray CL-2000i
	U/ml	42.3	33.8	50.8	Diasorin Liaison XL
	U/ml	30.0	24.0	36.0	Siemens Atellica IM
	U/ml	26.2	21.0	31.4	Roche Cobas e801
	U/ml	49.3	39.4	59.2	Abbott Alinity XR/XR2/XRL
CA125	U/ml	31.1	24.9	37.3	Abbott Architect
	U/ml	21.6	17.3	25.9	BioMerieux Vidas
	U/ml	25.7	20.6	30.8	Siemens Centaur XP/XPT/Classic OV Kit
	U/ml	26.7	21.4	32.0	Siemens Centaur XP/XPT/Classic CA125 II kit
	U/ml	21.4	17.1	25.7	Siemens Immulite 2000/2500
	U/ml	23.5	18.8	28.2	Siemens Immulite 1000
	U/ml	18.6	14.9	22.3	Beckman Dxl800
	U/ml	20.7	16.6	24.8	Roche Elecsys
	U/ml	19.7	15.8	23.6	Beckman Access
	U/ml	35.6	28.5	42.7	Tosoh Series
	U/ml	20.3	16.2	24.4	Vitros Eci
	U/ml	20.9	16.7	25.1	Roche Cobas 4000/E411
	U/ml	21.4	17.1	25.7	Roche Cobas e601/602
	U/ml	20.0	16.0	24.0	Fujirebio Lumipulse G Series
	U/ml	28.0	22.4	33.6	Siemens Centaur CP CA125 II kit
	U/ml	37.0	29.6	44.4	Mindray CL-2000i
	U/ml	28.5	22.8	34.2	Diasorin Liaison XL
	U/ml	31.8	25.4	38.2	Siemens Atellica IM
	U/ml	20.3	16.2	24.4	Roche Cobas e801
U/ml	32.6	26.1	39.1	Abbott Alinity i	
Carbamazepine	µmol/l	16.6	13.3	19.9	Abbott Architect (CMIA)
	µg/ml	3.92	3.14	4.70	
	µmol/l	17.8	14.2	21.4	Siemens Centaur XP/XPT/Classic
	µg/ml	4.21	3.36	5.06	
	µmol/l	13.6	10.9	16.3	Siemens Dimension
µg/ml	3.22	2.58	3.86		

AAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods
			low	high	
Carbamazepine	µmol/l	12.5	10.0	15.0	Siemens Immulite 2000/2500
	µg/ml	2.96	2.36	3.56	
	µmol/l	16.2	13.0	19.4	Roche Integra
	µg/ml	3.83	3.07	4.59	
	µmol/l	14.1	11.3	16.9	Roche Cobas 6000/8000
	µg/ml	3.33	2.67	3.99	
	µmol/l	15.7	12.6	18.8	Beckman AU400/600/640/2700/5400
	µg/ml	3.71	2.98	4.44	
	µmol/l	14.5	11.6	17.4	Abbott Architect (PETINA)
	µg/ml	3.43	2.74	4.12	
	µmol/l	15.7	12.6	18.8	EMIT
	µg/ml	3.71	2.98	4.44	
	µmol/l	14.4	11.5	17.3	Siemens Atellica CH
	µg/ml	3.40	2.72	4.08	
Carcinoembryonic Antigen (CEA)	µmol/l	14.5	11.6	17.4	Abbott Alinity (PETINA)
	µg/ml	3.43	2.74	4.12	
	µmol/l	15.4	12.3	18.5	Gravimetric
	µg/ml	3.64	2.91	4.37	
	ng/ml = µg/l	6.40	5.12	7.68	Abbott Architect
	ng/ml = µg/l	5.11	4.09	6.13	BioMerieux Vidas
	ng/ml = µg/l	5.70	4.56	6.84	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	5.19	4.15	6.23	CIS RIA Coated tube
	ng/ml = µg/l	6.70	5.36	8.04	Siemens Immulite 2000/2500
	ng/ml = µg/l	6.56	5.25	7.87	Siemens Immulite 1000
	ng/ml = µg/l	5.20	4.16	6.24	Beckman DxI800
	ng/ml = µg/l	5.44	4.35	6.53	Roche Elecsys
	ng/ml = µg/l	4.98	3.98	5.98	Diasorin Liaison
	ng/ml = µg/l	5.18	4.14	6.22	Beckman Access
	ng/ml = µg/l	8.72	6.98	10.5	Tosoh Series
	ng/ml = µg/l	5.82	4.66	6.98	Vitros ECi
	ng/ml = µg/l	5.29	4.23	6.35	Roche Cobas e601/602
	ng/ml = µg/l	5.43	4.34	6.52	Roche Cobas 4000/E411
	ng/ml = µg/l	6.92	5.54	8.30	Fujirebio Lumipulse G Series
	ng/ml = µg/l	5.65	4.52	6.78	Siemens Centaur CP
ng/ml = µg/l	4.57	3.66	5.48	Mindray CL-2000i	
ng/ml = µg/l	5.28	4.22	6.34	Diasorin Liaison XL	
ng/ml = µg/l	5.70	4.56	6.84	Siemens Atellica IM	
ng/ml = µg/l	5.41	4.33	6.49	Roche Cobas e801	
ng/ml = µg/l	6.30	5.04	7.56	Abbott Alinity i	
Cortisol	nmol/l	394	296	493	Abbott Architect
	µg/dl	14.2	10.7	17.7	
	nmol/l	282	212	353	BioMerieux Vidas
	µg/dl	10.2	7.63	12.8	
nmol/l	412	309	515	Siemens Centaur XP/XPT/Classic	
µg/dl	14.8	11.1	18.5		

IAAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Cortisol	nmol/l	306	230	383	CIS RIA
	µg/dl	11.0	8.28	13.7	
	nmol/l	389	292	486	Siemens Immulite 2000/2500
	µg/dl	14.0	10.5	17.5	
	nmol/l	403	302	504	Siemens Immulite 1000
	µg/dl	14.5	10.9	18.1	
	nmol/l	440	330	550	Beckman DxI800
	µg/dl	15.8	11.9	19.7	
	nmol/l	355	266	444	Roche Elecsys
	µg/dl	12.8	9.58	16.0	
	nmol/l	442	332	553	Beckman Access
	µg/dl	15.9	12.0	19.8	
	nmol/l	355	266	444	Tosoh Series
	µg/dl	12.8	9.58	16.0	
	nmol/l	337	253	421	Vitros ECi
	µg/dl	12.1	9.11	15.1	
	nmol/l	359	269	449	Roche Cobas e601/602
	µg/dl	12.9	9.68	16.1	
	nmol/l	382	287	478	Roche Cobas 4000/E411
	µg/dl	13.8	10.3	17.3	
nmol/l	375	281	469	Roche Cobas 4000/e411 Gen II	
µg/dl	13.5	10.1	16.9		
nmol/l	357	268	446	Roche Cobas e601/602 Gen II	
µg/dl	12.9	9.65	16.2		
nmol/l	391	293	489	Roche Elecsys Gen II	
µg/dl	14.1	10.5	17.7		
nmol/l	631	473	789	Diasorin Liaison XL	
µg/dl	22.7	17.0	28.4		
nmol/l	473	355	591	Siemens Atellica IM	
µg/dl	17.0	12.8	21.2		
nmol/l	349	262	436	Roche Cobas e801	
µg/dl	12.6	9.43	15.8		
nmol/l	386	290	483	Abbott Alinity i	
µg/dl	13.9	10.4	17.4		
DHEA-S	µmol/l	2.87	2.30	3.44	Abbott Architect
	µmol/l	2.10	1.68	2.52	Siemens Immulite 2000/2500
	µmol/l	2.63	2.10	3.16	Beckman DxI800
	µmol/l	4.05	3.24	4.86	Roche Elecsys
	µmol/l	2.73	2.18	3.28	Beckman Access
	µmol/l	2.14	1.71	2.57	Siemens Centaur XP/XPT/Classic
	µmol/l	3.68	2.94	4.42	Roche Cobas 4000/E411
	µmol/l	3.62	2.90	4.34	Roche Cobas e601/602
	µmol/l	2.64	2.11	3.17	Immunotech RIA
	µmol/l	2.61	2.09	3.13	Diasorin Liaison XL
	µmol/l	2.13	1.70	2.56	Siemens Atellica IM
	µmol/l	3.51	2.81	4.21	Roche Cobas e801

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
DHEA-S	µmol/l	2.88	2.30	3.46	Abbott Alinity i
Digoxin	nmol/l	0.560	0.448	0.672	Abbott Architect (CMIA)
	ng/ml	0.437	0.350	0.524	
	nmol/l	0.686	0.549	0.823	BioMerieux Vidas
	ng/ml	0.536	0.429	0.643	
	nmol/l	0.968	0.774	1.16	Siemens Centaur XP/XPT/Classic
	ng/ml	0.756	0.604	0.908	
	nmol/l	0.709	0.567	0.851	Siemens Dimension
	ng/ml	0.554	0.443	0.665	
	nmol/l	0.764	0.611	0.917	Beckman Dxl800
	ng/ml	0.597	0.477	0.717	
	nmol/l	0.822	0.658	0.986	Roche Integra
	ng/ml	0.642	0.514	0.770	
	nmol/l	0.842	0.674	1.01	Roche Cobas e601/602
	ng/ml	0.658	0.526	0.790	
	nmol/l	0.803	0.642	0.964	Beckman AU400/600/640/2700/5400
	ng/ml	0.627	0.501	0.753	
	nmol/l	0.931	0.745	1.12	Roche Cobas 4000/E411
	ng/ml	0.727	0.582	0.872	
	nmol/l	0.868	0.694	1.04	Roche Cobas e801
	ng/ml	0.678	0.542	0.814	
	nmol/l	0.987	0.790	1.18	Siemens Atellica IM
	ng/ml	0.771	0.617	0.925	
	nmol/l	0.536	0.429	0.643	Siemens Atellica CH
ng/ml	0.419	0.335	0.503		
nmol/l	0.747	0.598	0.896	Abbott Alinity (CMIA)	
ng/ml	0.583	0.467	0.699		
nmol/l	0.695	0.556	0.834	Abbott Alinity (PETINA)	
ng/ml	0.543	0.434	0.652		
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	18.8	15.0	22.6	Abbott Architect
	ng/ml = µg/l	11.2	8.96	13.4	BioMerieux Vidas
	ng/ml = µg/l	14.0	11.2	16.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	15.4	12.3	18.5	Siemens Dimension
	ng/ml = µg/l	13.8	11.0	16.6	Siemens Immulite 2000/2500
	ng/ml = µg/l	12.8	10.2	15.4	Siemens Immulite 1000
	ng/ml = µg/l	11.3	9.04	13.6	Beckman Dxl800
	ng/ml = µg/l	17.3	13.8	20.8	Roche Elecsys/Cobas e411
	ng/ml = µg/l	14.6	11.7	17.5	Diasorin Liaison
	ng/ml = µg/l	17.0	13.6	20.4	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	10.9	8.72	13.1	Beckman Access
	ng/ml = µg/l	10.9	8.72	13.1	Tosoh Series
	ng/ml = µg/l	11.2	8.96	13.4	Vitros ECi

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Ferritin	ng/ml = µg/l	17.1	13.7	20.5	Roche Cobas 4000/c311
	ng/ml = µg/l	12.0	9.60	14.4	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	16.6	13.3	19.9	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	12.6	10.1	15.1	Siemens Centaur CP
	ng/ml = µg/l	14.6	11.7	17.5	Diasorin Liaison XL
	ng/ml = µg/l	19.1	15.3	22.9	Abbott Alinity i
	ng/ml = µg/l	13.2	10.6	15.8	Siemens Atellica IM
	ng/ml = µg/l	17.3	13.8	20.8	Roche Cobas e801
Folate	nmol/l	3.72	2.83	4.61	Abbott Architect
	ng/ml	1.64	1.25	2.03	
	nmol/l	6.19	4.70	7.68	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	2.73	2.07	3.39	
	nmol/l	2.76	2.10	3.42	Siemens Immulite 2000
	ng/ml	1.22	0.926	1.51	
	nmol/l	2.76	2.10	3.42	Beckman Dxl 600 / 800 - A14208
	ng/ml	1.22	0.926	1.51	
	nmol/l	3.33	2.53	4.13	Beckman Access
	ng/ml	1.47	1.12	1.82	
	nmol/l	7.67	5.83	9.51	Tosoh Series
	ng/ml	3.38	2.57	4.19	
	nmol/l	3.81	2.90	4.72	Vitros ECi
	ng/ml	1.68	1.28	2.08	
	nmol/l	2.98	2.26	3.70	Beckman Dxl 600 / 800 - A98032
	ng/ml	1.31	0.997	1.62	
	nmol/l	2.67	2.03	3.31	Roche Elecsys Folate
	ng/ml	1.18	0.895	1.47	
nmol/l	2.85	2.17	3.53	Roche Folate III - 07559992	
ng/ml	1.26	0.957	1.56		
nmol/l	7.15	5.43	8.87	Siemens Atellica IM	
ng/ml	3.15	2.39	3.91		
nmol/l	2.71	2.06	3.36	Roche Cobas e801	
ng/ml	1.20	0.908	1.49		
Free T3	pmol/l	6.67	5.00	8.34	Abbott Architect, 2 point calibration
	ng/dl	0.434	0.325	0.543	
	pg/ml	4.34	3.26	5.42	
	pmol/l	8.72	6.54	10.9	BioMerieux Vidas
	ng/dl	0.567	0.425	0.709	
	pg/ml	5.68	4.26	7.10	
	pmol/l	8.92	6.69	11.2	Siemens Centaur XP/XPT/Classic
	ng/dl	0.580	0.435	0.725	
	pg/ml	5.81	4.36	7.26	
	pmol/l	6.18	4.64	7.73	Siemens Immulite 2000/2500
	ng/dl	0.402	0.302	0.502	
	pg/ml	4.02	3.02	5.02	
	pmol/l	6.00	4.50	7.50	Siemens Immulite 1000
	ng/dl	0.390	0.293	0.487	
pg/ml	3.91	2.93	4.89		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	7.10	5.33	8.88	Beckman DxI800
	ng/dl	0.462	0.346	0.578	
	pg/ml	4.62	3.47	5.77	
	pmol/l	8.82	6.62	11.0	Roche Elecsys
	ng/dl	0.573	0.430	0.716	
	pg/ml	5.74	4.31	7.17	
	pmol/l	9.16	6.87	11.5	Diasorin Liaison
	ng/dl	0.595	0.447	0.743	
	pg/ml	5.96	4.47	7.45	
	pmol/l	7.55	5.66	9.44	Beckman Access
	ng/dl	0.491	0.368	0.614	
	pg/ml	4.92	3.68	6.16	
	pmol/l	9.29	6.97	11.6	Tosoh Series
	ng/dl	0.604	0.453	0.755	
	pg/ml	6.05	4.54	7.56	
	pmol/l	23.2	17.4	29.0	Vitros ECi
	ng/dl	1.51	1.13	1.89	
	pg/ml	15.1	11.3	18.9	
	pmol/l	8.83	6.62	11.0	Roche Cobas 4000/E411
	ng/dl	0.574	0.430	0.718	
	pg/ml	5.75	4.31	7.19	
	pmol/l	8.86	6.65	11.1	Roche Cobas e601/602
	ng/dl	0.576	0.432	0.720	
	pg/ml	5.77	4.33	7.21	
	pmol/l	9.49	7.12	11.9	Siemens Centaur CP
	ng/dl	0.617	0.463	0.771	
	pg/ml	6.18	4.64	7.72	
	pmol/l	8.70	6.53	10.9	Mindray CL-2000i
	ng/dl	0.566	0.424	0.708	
	pg/ml	5.66	4.25	7.07	
pmol/l	9.38	7.04	11.7	Diasorin Liaison XL	
ng/dl	0.610	0.458	0.762		
pg/ml	6.11	4.58	7.64		
pmol/l	9.87	7.40	12.3	Siemens Atellica IM	
ng/dl	0.642	0.481	0.803		
pg/ml	6.43	4.82	8.04		
pmol/l	6.65	4.99	8.31	Abbott Alinity, 2 point cal	
ng/dl	0.432	0.324	0.540		
pg/ml	4.33	3.25	5.41		
pmol/l	6.51	4.88	8.14	Abbott Architect, 6 point calibration	
ng/dl	0.423	0.317	0.529		
pg/ml	4.24	3.18	5.30		
pmol/l	8.57	6.43	10.7	Roche Cobas e801	
ng/dl	0.557	0.418	0.696		
pg/ml	5.58	4.19	6.97		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Free T3	pmol/l	6.80	5.10	8.50	Abbott Alinity, 6 point cal
	ng/dl	0.442	0.332	0.552	
	pg/ml	4.43	3.32	5.54	
Free T4	pmol/l	12.1	9.08	15.1	Abbott Architect
	ng/dl	0.944	0.708	1.18	
	pg/ml	9.44	7.08	11.8	
	pmol/l	12.7	9.53	15.9	Siemens Centaur XP/XPT/Classic
	ng/dl	0.991	0.743	1.24	
	pg/ml	9.91	7.43	12.4	
	pmol/l	21.5	16.1	26.9	CIS RIA Coated tube
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.8	12.6	21.0	
	pmol/l	21.5	16.1	26.9	Siemens Immulite 2000/2500
	ng/dl	1.68	1.26	2.10	
	pg/ml	16.8	12.6	21.0	
	pmol/l	20.8	15.6	26.0	Siemens Immulite 1000
	ng/dl	1.62	1.22	2.02	
	pg/ml	16.2	12.2	20.2	
	pmol/l	14.9	11.2	18.6	Beckman Dxl800
	ng/dl	1.16	0.874	1.45	
	pg/ml	11.6	8.74	14.5	
	pmol/l	17.8	13.4	22.3	Roche Elecsys
	ng/dl	1.39	1.05	1.73	
	pg/ml	13.9	10.5	17.3	
	pmol/l	22.4	16.8	28.0	Diasorin Liaison
	ng/dl	1.75	1.31	2.19	
	pg/ml	17.5	13.1	21.9	
pmol/l	14.9	11.2	18.6	Beckman Access	
ng/dl	1.16	0.874	1.45		
pg/ml	11.6	8.74	14.5		
pmol/l	14.7	11.0	18.4	Tosoh Series	
ng/dl	1.15	0.858	1.44		
pg/ml	11.5	8.58	14.4		
pmol/l	44.6	33.5	55.8	Vitros ECi	
ng/dl	3.48	2.61	4.35		
pg/ml	34.8	26.1	43.5		
pmol/l	18.1	13.6	22.6	Roche Cobas e601/602	
ng/dl	1.41	1.06	1.76		
pg/ml	14.1	10.6	17.6		
pmol/l	14.1	10.6	17.6	Immunotech IRMA	
ng/dl	1.10	0.827	1.37		
pg/ml	11.0	8.27	13.7		
pmol/l	17.6	13.2	22.0	Roche Cobas 4000/E411	
ng/dl	1.37	1.03	1.71		
pg/ml	13.7	10.3	17.1		
pmol/l	18.0	13.5	22.5	Biomerieux Vidas FT4N Kit	
ng/dl	1.40	1.05	1.75		
pg/ml	14.0	10.5	17.5		

IAAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Free T4	pmol/l	13.1	9.83	16.4	Siemens Centaur CP
	ng/dl	1.02	0.767	1.27	
	pg/ml	10.2	7.67	12.7	
	pmol/l	17.3	13.0	21.6	Mindray CL-2000i
	ng/dl	1.35	1.01	1.69	
	pg/ml	13.5	10.1	16.9	
	pmol/l	22.6	17.0	28.3	Diasorin Liaison XL
	ng/dl	1.76	1.33	2.19	
	pg/ml	17.6	13.3	21.9	
	pmol/l	13.3	9.98	16.6	Siemens Atellica IM
	ng/dl	1.04	0.778	1.30	
	pg/ml	10.4	7.78	13.0	
	pmol/l	11.5	8.63	14.4	Abbott Alinity i
	ng/dl	0.897	0.673	1.12	
	pg/ml	8.97	6.73	11.2	
pmol/l	18.0	13.5	22.5	Roche Cobas e801	
ng/dl	1.40	1.05	1.75		
pg/ml	14.0	10.5	17.5		
FSH	mU/ml	5.19	4.15	6.23	Abbott Architect
	mU/ml	6.60	5.28	7.92	BioMerieux Vidas
	mU/ml	7.48	5.98	8.98	Siemens Centaur XP/XPT/Classic
	mU/ml	5.63	4.50	6.76	Siemens Immulite 2000/2500
	mU/ml	6.02	4.82	7.22	Siemens Immulite 1000
	mU/ml	6.25	5.00	7.50	Beckman Dxl800
	mU/ml	5.94	4.75	7.13	Roche/BM Elecsys
	mU/ml	7.35	5.88	8.82	Diasorin Liaison
	mU/ml	6.07	4.86	7.28	Beckman Access
	mU/ml	7.10	5.68	8.52	Tosoh Series
	mU/ml	4.25	3.40	5.10	Vitros ECi
	mU/ml	5.98	4.78	7.18	Roche Cobas 4000/E411
	mU/ml	5.37	4.30	6.44	Roche Cobas e601/602
	mU/ml	4.92	3.94	5.90	Fujirebio Lumipulse G Series
	mU/ml	5.65	4.52	6.78	Siemens Centaur CP
	mU/ml	6.44	5.15	7.73	Mindray CL-2000i
	mU/ml	8.50	6.80	10.2	Diasorin Liaison XL
	mU/ml	7.13	5.70	8.56	Siemens Atellica IM
mU/ml	5.38	4.30	6.46	Abbott Alinity i	
mU/ml	5.59	4.47	6.71	Roche Cobas e801	
Gentamicin	µmol/l	4.96	3.97	5.95	Siemens Centaur XP/XPT/Classic
	µg/ml	2.37	1.90	2.84	
	µmol/l	4.88	3.90	5.86	Abbott Architect (CMIA)
	µg/ml	2.33	1.86	2.80	
	µmol/l	3.85	3.08	4.62	Roche Cobas 6000/8000 Online KIMS
µg/ml	1.84	1.47	2.21		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range						
Analyte	unit	Target	low	high	methods	
Gentamicin	µmol/l	4.56	3.65	5.47	Roche Cobas 6000/8000 CEDIA	
	µg/ml	2.18	1.74	2.62		
	µmol/l	5.32	4.26	6.38	Abbott Alinity (PETINA)	
	µg/ml	2.54	2.04	3.04		
	µmol/l	4.85	3.88	5.82	Gravimetric	
Growth Hormone (GH)	µU/ml	4.64	3.71	5.57	Siemens Immulite 2000/2500	
	ng/ml	1.55	1.24	1.86		
	µU/ml	4.47	3.58	5.36	Siemens Immulite 1000	
	ng/ml	1.49	1.19	1.79		
	µU/ml	3.38	2.70	4.06	Beckman DxI800	
	ng/ml	1.13	0.899	1.36		
	µU/ml	3.44	2.75	4.13	Beckman Access	
	ng/ml	1.15	0.916	1.38		
	µU/ml	4.54	3.63	5.45	Tosoh Series	
	ng/ml	1.51	1.21	1.81		
	µU/ml	4.42	3.54	5.30	Roche Cobas 4000/E411	
	ng/ml	1.47	1.18	1.76		
	µU/ml	4.34	3.47	5.21	Roche Cobas e601/602	
	ng/ml	1.45	1.16	1.74		
Immunoglobulin E	µU/ml	3.27	2.62	3.92	Diasorin Liaison XL	
	ng/ml	1.09	0.872	1.31		
	µU/ml	4.45	3.56	5.34	Roche Cobas e801	
	ng/ml	1.48	1.19	1.77		
	Insulin	KIU/l = IU/ml	216	173	259	Abbott Architect
		KIU/l = IU/ml	199	159	239	BioMerieux Vidas
		KIU/l = IU/ml	238	190	286	Siemens Centaur XP/XPT/Classic
		KIU/l = IU/ml	232	186	278	Siemens Immulite 2000/2500
		KIU/l = IU/ml	252	202	302	Siemens Immulite 1000
		KIU/l = IU/ml	228	182	274	Roche Elecsys
		KIU/l = IU/ml	205	164	246	Pharmacia Unicap
		KIU/l = IU/ml	206	165	247	Tosoh Series
		KIU/l = IU/ml	231	185	277	Roche Cobas 4000/E411
KIU/l = IU/ml		223	178	268	Roche Cobas e601/602	
KIU/l = IU/ml		221	177	265	Siemens Atellica IM	
KIU/l = IU/ml		235	188	282	Roche Cobas e801	
Insulin	KIU/l = IU/ml	213	170	256	Abbott Alinity	
	mU/l	1.64	1.23	2.05	Siemens Centaur XP/XPT/Classic	
	µU/ml	1.64	1.23	2.05		
	mU/l	7.92	5.94	9.90	Siemens Immulite 1000	
	µU/ml	7.92	5.94	9.90		
	mU/l	2.14	1.61	2.68	Roche Elecsys	
	µU/ml	2.14	1.61	2.67		
	mU/l	1.16	0.870	1.45	Beckman Access	
	µU/ml	1.16	0.870	1.45		
	mU/l	1.44	1.08	1.80	Abbott Architect	
µU/ml	1.44	1.08	1.80			

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Insulin	mU/l	2.96	2.22	3.70	Tosoh Series
	µU/ml	2.96	2.22	3.70	
	mU/l	2.02	1.52	2.53	Roche Cobas 4000/E411
	µU/ml	2.02	1.52	2.52	
	mU/l	1.14	0.855	1.43	Beckman Dxl 600/800
	µU/ml	1.14	0.855	1.43	
	mU/l	2.12	1.59	2.65	Roche Cobas 6000/8000
	µU/ml	2.12	1.59	2.65	
Luteinising Hormone (LH)	mU/ml	1.65	1.24	2.06	Siemens Atellica IM
	µU/ml	1.65	1.24	2.06	
	mU/l	1.45	1.09	1.81	Abbott Alinity i
	µU/ml	1.45	1.09	1.81	
	mU/ml	2.66	2.13	3.19	Abbott Architect
	mU/ml	3.91	3.13	4.69	BioMerieux Vidas
	mU/ml	3.37	2.70	4.04	Siemens Centaur XP/XPT/Classic
	mU/ml	8.79	7.03	10.5	Siemens Immulite 2000
	mU/ml	9.77	7.82	11.7	Siemens Immulite 1000
	mU/ml	2.38	1.90	2.86	Beckman Dxl800
	mU/ml	4.15	3.32	4.98	Roche Elecsys
	mU/ml	4.47	3.58	5.36	Diasorin Liaison
	mU/ml	2.36	1.89	2.83	Beckman Access
	mU/ml	2.97	2.38	3.56	Tosoh Series
	mU/ml	6.79	5.43	8.15	Vitros ECi
	mU/ml	4.18	3.34	5.02	Roche Cobas 4000/E411
	mU/ml	4.21	3.37	5.05	Roche Cobas e601/602
	mU/ml	3.52	2.82	4.22	Fujirebio Lumipulse G Series
	mU/ml	2.97	2.38	3.56	Siemens Centaur CP
	mU/ml	4.01	3.21	4.81	Mindray CL-2000i
mU/ml	4.76	3.81	5.71	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	4.23	3.38	5.08	Roche Cobas e801	
Oestradiol	pmol/l	212	170	254	Abbott Architect
	pg/ml	57.7	46.2	69.2	
	pmol/l	258	206	310	BioMerieux Vidas
	pg/ml	70.2	56.0	84.4	
	pmol/l	198	158	238	Siemens Centaur XP/XPT/Classic
	pg/ml	53.9	43.0	64.8	
	pmol/l	202	162	242	Siemens Immulite 2000/2500
	pg/ml	54.9	44.1	65.7	
	pmol/l	161	129	193	Beckman Dxl800
	pg/ml	43.8	35.1	52.5	
pmol/l	195	156	234	Roche Elecsys (Estradiol II)	
pg/ml	53.0	42.4	63.6		
pmol/l	166	133	199	Beckman Access	
pg/ml	45.2	36.2	54.2		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Oestradiol	pmol/l	186	149	223	Vitros ECI
	pg/ml	50.6	40.5	60.7	
	pmol/l	195	156	234	Roche Cobas e601/602 (Estradiol II)
	pg/ml	53.0	42.4	63.6	
	pmol/l	169	135	203	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	46.0	36.7	55.3	
	pmol/l	199	159	239	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	54.1	43.2	65.0	
	pmol/l	213	170	256	Fujirebio Lumipulse G Series
	pg/ml	57.9	46.2	69.6	
	pmol/l	196	157	235	Roche Cobas e601/602 (Estradiol III)
	pg/ml	53.3	42.7	63.9	
	pmol/l	167	134	200	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	45.4	36.4	54.4	
	pmol/l	126	101	151	Diasorin Liaison XL
	pg/ml	34.3	27.5	41.1	
	pmol/l	164	131	197	Beckman Access / Access 2 Sensitive B84493
	pg/ml	44.6	35.6	53.6	
	pmol/l	160	128	192	Beckman DxI600/800 Sensitive B84493
	pg/ml	43.5	34.8	52.2	
pmol/l	202	162	242	Siemens Atellica IM	
pg/ml	54.9	44.1	65.7		
pmol/l	212	170	254	Abbott Alinity i	
pg/ml	57.7	46.2	69.2		
pmol/l	176	141	211	Roche Cobas e801 (Estradiol III)	
pg/ml	47.9	38.4	57.4		
Paracetamol	mmol/l	0.161	0.129	0.193	Abbott Architect
	mg/l	24.4	19.5	29.3	
	mmol/l	0.155	0.124	0.186	Roche Cobas c501/502/503/701/702
	mg/l	23.5	18.8	28.2	
	mmol/l	0.166	0.133	0.199	Beckman AU Instruments
	mg/l	25.1	20.1	30.1	
	mmol/l	0.168	0.134	0.202	EMIT
	mg/l	25.4	20.3	30.5	
mmol/l	0.163	0.130	0.196	Abbott Alinity	
mg/l	24.7	19.7	29.7		
mmol/l	0.166	0.130	0.200	Gravimetric	
mg/l	25.1	19.7	30.3		
Phenobarbital	µmol/l	35.8	28.6	43.0	Abbott Architect (CMIA)
	µg/ml	8.31	6.64	9.98	
	µmol/l	33.7	27.0	40.4	Roche Cobas e601/602/801
	µg/ml	7.82	6.26	9.38	
	µmol/l	34.6	27.7	41.5	Beckman AU400/600/640/2700/5400
	µg/ml	8.03	6.43	9.63	
µmol/l	49.2	39.4	59.0	Siemens Centaur XP/XPT/Classic	
µg/ml	11.4	9.14	13.7		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Phenobarbital	µmol/l	35.6	28.5	42.7	Roche Integra
	µg/ml	8.26	6.61	9.91	
	µmol/l	40.9	32.7	49.1	Siemens Immulite 1000
	µg/ml	9.49	7.59	11.4	
	µmol/l	36.4	29.1	43.7	Siemens Atellica CH
	µg/ml	8.44	6.75	10.1	
	µmol/l	30.2	24.2	36.2	Abbott Alinity (PETINA)
	µg/ml	7.01	5.61	8.41	
	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	20.1	16.1	24.1	Siemens Centaur XP/XPT/Classic
	µg/ml	5.08	4.07	6.09	
	µmol/l	15.1	12.1	18.1	Siemens Dimension
	µg/ml	3.81	3.06	4.56	
	µmol/l	18.9	15.1	22.7	Roche Integra
	µg/ml	4.77	3.81	5.73	
	µmol/l	18.7	15.0	22.4	Roche Cobas 6000/8000
	µg/ml	4.72	3.79	5.65	
	µmol/l	19.7	15.8	23.6	Beckman DxC
	µg/ml	4.97	3.99	5.95	
Primidone	µmol/l	19.9	15.9	23.9	Abbott Alinity
	µg/ml	5.02	4.01	6.03	
	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	3.51	2.81	4.21	Abbott Architect
	ng/ml	1.10	0.880	1.32	
	nmol/l	4.78	3.82	5.74	BioMerieux Vidas
	ng/ml	1.50	1.20	1.80	
	nmol/l	2.99	2.39	3.59	Siemens Centaur XP/XPT/Classic
	ng/ml	0.936	0.748	1.12	
	nmol/l	4.06	3.25	4.87	Siemens Immulite 2000/2500
	ng/ml	1.27	1.02	1.52	
	nmol/l	4.06	3.25	4.87	Siemens Immulite 1000
	ng/ml	1.27	1.02	1.52	
	nmol/l	3.82	3.06	4.58	Beckman Dxl Prog Cal 33555
	ng/ml	1.20	0.958	1.44	
	nmol/l	3.64	2.91	4.37	Roche Elecsys (Prog. II)
	ng/ml	1.14	0.911	1.37	
nmol/l	3.93	3.14	4.72	Beckman Access Prog Cal 33555	
ng/ml	1.23	0.983	1.48		
nmol/l	3.44	2.75	4.13	Tosoh Series	
ng/ml	1.08	0.861	1.30		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	5.22	4.18	6.26	Vitros ECI
	ng/ml	1.63	1.31	1.95	
	nmol/l	3.84	3.07	4.61	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	1.20	0.961	1.44	
	nmol/l	4.19	3.35	5.03	Roche Cobas e601/602 (Prog. II)
	ng/ml	1.31	1.05	1.57	
	nmol/l	2.74	2.19	3.29	Diasorin Liaison
	ng/ml	0.858	0.685	1.03	
	nmol/l	3.17	2.54	3.80	Beckman Access Prog DE Cal A80773
	ng/ml	0.992	0.795	1.19	
	nmol/l	3.35	2.68	4.02	Siemens Centaur CP
	ng/ml	1.05	0.839	1.26	
	nmol/l	3.32	2.66	3.98	Mindray CL-2000i
	ng/ml	1.04	0.833	1.25	
	nmol/l	4.10	3.28	4.92	Roche Cobas e601/602 (Prog. III)
	ng/ml	1.28	1.03	1.53	
	nmol/l	4.06	3.25	4.87	Roche Elecsys (Prog. III)
	ng/ml	1.27	1.02	1.52	
	nmol/l	3.87	3.10	4.64	Roche Cobas 4000/e411 (Prog. III)
	ng/ml	1.21	0.970	1.45	
nmol/l	2.42	1.94	2.90	Diasorin Liaison XL	
ng/ml	0.757	0.607	0.907		
nmol/l	3.13	2.50	3.76	Abbott Alinity i	
ng/ml	0.980	0.783	1.18		
nmol/l	3.88	3.10	4.66	Roche Cobas e801 (Prog. III)	
ng/ml	1.21	0.970	1.45		
Prolactin	µU/ml	175	140	210	Abbott Architect
	µU/ml	178	142	214	BioMerieux Vidas
	µU/ml	150	120	180	Siemens Centaur XP/XPT/Classic
	µU/ml	152	122	182	Siemens Immulite 2000/2500
	µU/ml	181	145	217	Siemens Immulite 1000
	µU/ml	148	118	178	Beckman Dxl800
	µU/ml	141	113	169	Roche Elecsys
	µU/ml	152	122	182	Diasorin Liaison
	µU/ml	150	120	180	Beckman Access
	µU/ml	186	149	223	Tosoh Series
	µU/ml	180	144	216	Vitros ECI
	µU/ml	140	112	168	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	165	132	198	Immunotech IRMA
	µU/ml	144	115	173	Roche Cobas 4000/E411
	µU/ml	139	111	167	Roche Cobas e601/602
	µU/ml	198	158	238	Fujirebio Lumipulse G Series
	µU/ml	146	117	175	Siemens Centaur CP
	µU/ml	231	185	277	Mindray CL-2000i
µU/ml	170	136	204	Diasorin Liaison XL	

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Prolactin	µU/ml	150	120	180	Siemens Atellica IM
	µU/ml	174	139	209	Abbott Alinity i
	µU/ml	140	112	168	Roche Cobas e801 PRL II
PSA Free	ng/ml = µg/l	1.96	1.47	2.45	Abbott Architect
	ng/ml = µg/l	3.09	2.32	3.86	BioMerieux Vidas
	ng/ml = µg/l	1.33	0.998	1.66	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.38	1.04	1.73	Siemens Immulite 2000/2500
	ng/ml = µg/l	1.42	1.07	1.78	Siemens Immulite 1000
	ng/ml = µg/l	1.61	1.21	2.01	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	0.986	0.740	1.23	Roche Elecsys
	ng/ml = µg/l	2.00	1.50	2.50	Diasorin Liaison
	ng/ml = µg/l	1.70	1.28	2.13	Beckman Access standardised to Hybritech
	ng/ml = µg/l	0.897	0.673	1.12	Tosoh Series
	ng/ml = µg/l	0.935	0.701	1.17	Roche Cobas 4000/E411
	ng/ml = µg/l	0.924	0.693	1.16	Roche Cobas e601/602
	ng/ml = µg/l	1.47	1.10	1.84	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.76	1.32	2.20	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	0.448	0.336	0.560	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.35	1.01	1.69	Fujirebio Lumipulse G Series
	ng/ml = µg/l	1.90	1.43	2.38	Diasorin Liaison XL
	ng/ml = µg/l	1.40	1.05	1.75	Siemens Atellica IM
	ng/ml = µg/l	1.92	1.44	2.40	Abbott Alinity i
	ng/ml = µg/l	0.908	0.681	1.14	Roche Cobas e801
PSA Total	ng/ml = µg/l	1.45	1.09	1.81	Abbott Architect
	ng/ml = µg/l	2.12	1.59	2.65	BioMerieux Vidas
	ng/ml = µg/l	2.03	1.52	2.54	bioMerieux VIDAS TPSA
	ng/ml = µg/l	1.68	1.26	2.10	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	1.02	0.765	1.28	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	1.16	0.870	1.45	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	2.13	1.60	2.66	Beckman Dxl standardisd to Hybritech
	ng/ml = µg/l	1.62	1.22	2.03	Beckman Dxl800 standardised to WHO IRP96/670
	ng/ml = µg/l	1.88	1.41	2.35	Roche Elecsys
	ng/ml = µg/l	1.79	1.34	2.24	Diasorin Liaison
	ng/ml = µg/l	2.23	1.67	2.79	Beckman Access standardised to Hybritech
	ng/ml = µg/l	2.27	1.70	2.84	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	1.50	1.13	1.88	Tosoh Series
	ng/ml = µg/l	1.96	1.47	2.45	Vitros ECi
	ng/ml = µg/l	2.32	1.74	2.90	CIS RIA Coated tube
	ng/ml = µg/l	1.93	1.45	2.41	Roche Cobas 4000/E411
	ng/ml = µg/l	2.04	1.53	2.55	Roche Cobas e601/602
	ng/ml = µg/l	1.38	1.04	1.73	Fujirebio Lumipulse G Series
	ng/ml = µg/l	1.97	1.48	2.46	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	1.61	1.21	2.01	Siemens Centaur CP
ng/ml = µg/l	1.83	1.37	2.29	Diasorin Liaison XL	
ng/ml = µg/l	1.67	1.25	2.09	Siemens Atellica IM	
ng/ml = µg/l	1.54	1.16	1.93	Abbott Alinity i	

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
PSA Total	ng/ml = µg/l	1.97	1.48	2.46	Roche Cobas e801
Salicylic Acid	mmol/l	0.261	0.209	0.313	Roche Cobas c501/502/503
	mg/dl	3.60	2.89	4.31	
	mmol/l	0.300	0.240	0.360	EMIT
	mg/dl	4.14	3.31	4.97	
	mmol/l	0.286	0.230	0.340	Gravimetric
SHBG	mg/dl	3.95	3.18	4.70	
	nmol/l	5.46	4.37	6.55	Siemens Immulite 2000/2500
	nmol/l	5.93	4.74	7.12	Abbott Architect
	nmol/l	5.25	4.20	6.30	Beckman Access
	nmol/l	4.96	3.97	5.95	Beckman Dxl800
	nmol/l	6.09	4.87	7.31	Siemens Atellica IM
	nmol/l	5.99	4.79	7.19	Roche analysers - 413417/15
	nmol/l	6.01	4.81	7.21	Roche Cobas e801 - 413429
T Uptake	nmol/l	6.08	4.86	7.30	Abbott Alinity i
	%U	37.4	30.7	44.1	Siemens Immulite 2000
Testosterone	nmol/l	2.52	2.02	3.02	Abbott Architect
	ng/ml	0.726	0.582	0.870	
	ng/dl	72.6	58.2	87.0	
	nmol/l	1.57	1.26	1.88	BioMerieux Vidas
	ng/ml	0.452	0.363	0.541	
	ng/dl	45.2	36.3	54.1	
	nmol/l	2.27	1.82	2.72	Siemens Centaur XP/XPT/Classic
	ng/ml	0.654	0.524	0.784	
	ng/dl	65.4	52.4	78.4	
	nmol/l	2.96	2.37	3.55	Siemens Immulite 2000/2500
	ng/ml	0.852	0.683	1.02	
	ng/dl	85.2	68.3	102	
	nmol/l	2.77	2.22	3.32	Siemens Immulite 1000
	ng/ml	0.798	0.639	0.957	
	ng/dl	79.8	63.9	95.7	
	nmol/l	2.69	2.15	3.23	Beckman Dxl800
	ng/ml	0.775	0.619	0.931	
	ng/dl	77.5	61.9	93.1	
	nmol/l	2.91	2.33	3.49	Beckman Access
	ng/ml	0.838	0.671	1.01	
ng/dl	83.8	67.1	101		
nmol/l	1.88	1.50	2.26	Tosoh Series	
ng/ml	0.541	0.432	0.650		
ng/dl	54.1	43.2	65.0		
nmol/l	2.27	1.82	2.72	Vitros ECi	
ng/ml	0.654	0.524	0.784		
ng/dl	65.4	52.4	78.4		
nmol/l	3.12	2.50	3.74	Roche Cobas e601/602 Test II	
ng/ml	0.899	0.720	1.08		
ng/dl	89.9	72.0	108		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods	
			low	high		
Testosterone	nmol/l	3.25	2.60	3.90	Roche Elecsys Test II	
	ng/ml	0.936	0.749	1.12		
	ng/dl	93.6	74.9	112		
	nmol/l	3.19	2.55	3.83	Roche Cobas 4000/e411 Test II	
	ng/ml	0.919	0.734	1.10		
	ng/dl	91.9	73.4	110		
	nmol/l	2.49	1.99	2.99	Abbott Architect 2nd Generation	
	ng/ml	0.717	0.573	0.861		
	ng/dl	71.7	57.3	86.1		
	nmol/l	1.72	1.38	2.06	BioMerieux Vidas Testosterone II	
	ng/ml	0.495	0.397	0.593		
	ng/dl	49.5	39.7	59.3		
	nmol/l	2.28	1.82	2.74	Siemens Centaur TST II	
	ng/ml	0.657	0.524	0.790		
	ng/dl	65.7	52.4	79.0		
	nmol/l	2.04	1.63	2.45	Siemens Atellica IM	
	ng/ml	0.588	0.469	0.707		
	ng/dl	58.8	46.9	70.7		
Theophylline	nmol/l	3.09	2.47	3.71	Roche Cobas e801 Test II	
	ng/ml	0.890	0.711	1.07		
	ng/dl	89.0	71.1	107		
	nmol/l	2.52	2.02	3.02	Abbott Alinity i	
	ng/ml	0.726	0.582	0.870		
	ng/dl	72.6	58.2	87.0		
	Theophylline	µmol/l	29.4	23.5	35.3	Roche Integra
		µg/ml	5.30	4.23	6.37	
		µmol/l	28.6	22.9	34.3	Roche Cobas 6000/8000
		µg/ml	5.15	4.13	6.17	
		µmol/l	28.8	23.0	34.6	Beckman AU400/600/640/2700/5400
		µg/ml	5.19	4.14	6.24	
µmol/l		26.3	21.0	31.6	Abbott Alinity Enzyme-Immu	
µg/ml		4.74	3.78	5.70		
µmol/l		28.3	22.6	34.0	Gravimetric	
µg/ml		5.10	4.07	6.13		
Thyroglobulin	ng/ml	2.02	1.52	2.53	Roche Elecsys	
	ng/ml	1.68	1.26	2.10	Beckman Dxl800	
	ng/ml	2.12	1.59	2.65	Roche Cobas 4000/E411	
	ng/ml	2.00	1.50	2.50	Roche Cobas e601/602	
	ng/ml	1.63	1.22	2.04	Beckman Access	
	ng/ml	1.97	1.48	2.46	Abbott Architect 2000i	
	ng/ml	2.14	1.61	2.68	Tosoh Series	
	ng/ml	2.01	1.51	2.51	Roche Cobas e601/602 Tg II	
	ng/ml	2.06	1.55	2.58	Roche Elecsys TGII	
	ng/ml	2.05	1.54	2.56	Roche Cobas 4000/E411 TGII	
	ng/ml	2.11	1.58	2.64	Roche Cobas e801 Tg II	
ng/ml	0.756	0.567	0.945	DiaSorin Liaison XL TG II Gen		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Thyroglobulin	ng/ml	1.91	1.43	2.39	Abbott Alinity i
Thyroid Stimulating Hormone	µU/ml = mIU/l	0.101	0.081	0.121	Abbott Architect
	µU/ml = mIU/l	0.075	0.060	0.090	bioMerieux VIDAS TSH
	µU/ml = mIU/l	0.076	0.061	0.091	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	0.117	0.094	0.140	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	0.015	0.012	0.018	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	0.117	0.094	0.140	Siemens Immulite 2000/2500
	µU/ml = mIU/l	0.129	0.103	0.155	Siemens Immulite 1000
	µU/ml = mIU/l	0.100	0.080	0.120	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	0.099	0.079	0.119	Beckman Dxl800
	µU/ml = mIU/l	0.140	0.112	0.168	Roche Elecsys
	µU/ml = mIU/l	0.186	0.149	0.223	Diasorin Liaison
	µU/ml = mIU/l	0.099	0.079	0.119	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	0.146	0.117	0.175	Tosoh Series
	µU/ml = mIU/l	0.139	0.111	0.167	Vitros ECI
	µU/ml = mIU/l	0.146	0.117	0.175	Roche Cobas 4000/E411
	µU/ml = mIU/l	0.146	0.117	0.175	Roche Cobas e601/602
	µU/ml = mIU/l	0.100	0.080	0.120	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	0.118	0.094	0.142	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	0.107	0.086	0.128	Siemens Centaur CP
	µU/ml = mIU/l	0.110	0.088	0.132	Siemens Centaur CP TSH3-Ultra
µU/ml = mIU/l	0.142	0.114	0.170	Mindray CL-2000i	
µU/ml = mIU/l	0.099	0.079	0.119	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	0.202	0.162	0.242	Diasorin Liaison XL	
µU/ml = mIU/l	0.116	0.093	0.139	Siemens Atellica IM	
µU/ml = mIU/l	0.105	0.084	0.126	Abbott Alinity i	
µU/ml = mIU/l	0.133	0.106	0.160	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	18.7	15.0	22.4	Abbott Architect
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	13.3	10.6	16.0	Siemens Centaur XP/XPT/Classic
	IU/ml	0.013	0.011	0.015	
	mU/ml=IU/l	11.2	8.96	13.4	Siemens Dimension
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	35.8	28.6	43.0	Siemens Immulite 2000
	IU/ml	0.036	0.029	0.043	
	mU/ml=IU/l	29.2	23.4	35.0	Siemens Immulite 1000
	IU/ml	0.029	0.023	0.035	
	mU/ml=IU/l	32.1	25.7	38.5	Beckman Dxl800
	IU/ml	0.032	0.026	0.038	
	mU/ml=IU/l	20.2	16.2	24.2	Roche Cobas Core EIA
	IU/ml	0.020	0.016	0.024	
mU/ml=IU/l	30.0	24.0	36.0	Beckman Access	
IU/ml	0.030	0.024	0.036		
mU/ml=IU/l	17.5	14.0	21.0	Tosoh Series	
IU/ml	0.018	0.014	0.022		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15 'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	7.27	5.82	8.72	Vitros Eci
	IU/ml	0.007	0.006	0.008	
	mU/ml=IU/l	2.86	2.29	3.43	Roche hCG STAT (Intact)
	IU/ml	0.003	0.002	0.004	
	mU/ml=IU/l	19.8	15.8	23.8	Roche hCG+Beta
	IU/ml	0.020	0.016	0.024	
	mU/ml=IU/l	29.8	23.8	35.8	Beckman Access Total BhCG (5th IS)
	IU/ml	0.030	0.024	0.036	
	mU/ml=IU/l	32.5	26.0	39.0	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.033	0.026	0.040	
	mU/ml=IU/l	11.4	9.12	13.7	Siemens Centaur CP
	IU/ml	0.011	0.009	0.013	
	mU/ml=IU/l	17.7	14.2	21.2	Diasorin Liaison XL
	IU/ml	0.018	0.014	0.022	
	mU/ml=IU/l	11.9	9.52	14.3	Siemens Atellica IM
	IU/ml	0.012	0.010	0.014	
	mU/ml=IU/l	18.9	15.1	22.7	Abbott Alinity i
	IU/ml	0.019	0.015	0.023	
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	1.60	1.20	2.00	Abbott Architect
	ng/ml	1.04	0.781	1.30	
	ng/dl	104	78.1	130	
	nmol/l	1.60	1.20	2.00	BioMerieux Vidas
	ng/ml	1.04	0.781	1.30	
	ng/dl	104	78.1	130	
	nmol/l	1.52	1.14	1.90	Siemens Centaur XP/XPT/Classic
	ng/ml	0.990	0.742	1.24	
	ng/dl	99.0	74.2	124	
	nmol/l	1.23	0.923	1.54	Siemens Immulite 2000/2500
	ng/ml	0.801	0.601	1.00	
	ng/dl	80.1	60.1	100	
	nmol/l	1.17	0.878	1.46	Siemens Immulite 1000
	ng/ml	0.762	0.572	0.952	
	ng/dl	76.2	57.2	95.2	
	nmol/l	2.00	1.50	2.50	Beckman Dxl800
	ng/ml	1.30	0.977	1.62	
	ng/dl	130	97.7	162	
	nmol/l	2.67	2.00	3.34	Roche Elecsys
	ng/ml	1.74	1.30	2.18	
	ng/dl	174	130	218	
	nmol/l	1.98	1.49	2.48	Beckman Access
	ng/ml	1.29	0.970	1.61	
	ng/dl	129	97.0	161	
nmol/l	1.51	1.13	1.89	Tosoh Series	
ng/ml	0.983	0.736	1.23		
ng/dl	98.3	73.6	123		

IAAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Total T3	nmol/l	1.93	1.45	2.41	Vitros ECI
	ng/ml	1.26	0.944	1.58	
	ng/dl	126	94.4	158	
	nmol/l	1.03	0.773	1.29	CIS RIA Coated tube
	ng/ml	0.671	0.503	0.839	
	ng/dl	67.1	50.3	83.9	
	nmol/l	2.67	2.00	3.34	Roche Cobas 4000/E411
	ng/ml	1.74	1.30	2.18	
	ng/dl	174	130	218	
	nmol/l	2.57	1.93	3.21	Roche Cobas e601/602
	ng/ml	1.67	1.26	2.08	
	ng/dl	167	126	208	
	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	1.60	1.20	2.00	Abbott Alinity i
	ng/ml	1.04	0.781	1.30	
	ng/dl	104	78.1	130	
nmol/l	1.64	1.23	2.05	Siemens Atellica IM	
ng/ml	1.07	0.801	1.34		
ng/dl	107	80.1	134		
nmol/l	2.64	1.98	3.30	Roche Cobas e801	
ng/ml	1.72	1.29	2.15		
ng/dl	172	129	215		
Total T4	nmol/l	33.2	24.9	41.5	Abbott Architect
	µg/dl	2.59	1.94	3.24	
	ng/ml	25.9	19.4	32.4	
	nmol/l	33.8	25.4	42.3	BioMerieux Vidas
	µg/dl	2.64	1.98	3.30	
	ng/ml	26.4	19.8	33.0	
	nmol/l	19.8	14.9	24.8	Siemens Centaur XP/XPT/Classic
	µg/dl	1.54	1.16	1.92	
	ng/ml	15.4	11.6	19.2	
	nmol/l	25.6	19.2	32.0	Siemens Immulite 2000/2500
	µg/dl	2.00	1.50	2.50	
	ng/ml	20.0	15.0	25.0	
	nmol/l	24.9	18.7	31.1	Beckman DxI800
	µg/dl	1.94	1.46	2.42	
	ng/ml	19.4	14.6	24.2	
	nmol/l	41.4	31.1	51.8	Roche Elecsys
	µg/dl	3.23	2.43	4.03	
	ng/ml	32.3	24.3	40.3	
nmol/l	23.2	17.4	29.0	Tosoh Series	
µg/dl	1.81	1.36	2.26		
ng/ml	18.1	13.6	22.6		

IAAI BC5 GG5 MDF9A A'D@ G'@J9 @%f15 'DF9A A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Total T4	nmol/l	24.6	18.5	30.8	Vitros ECI
	µg/dl	1.92	1.44	2.40	
	ng/ml	19.2	14.4	24.0	
	nmol/l	28.7	21.5	35.9	CIS RIA Coated tube
	µg/dl	2.24	1.68	2.80	
	ng/ml	22.4	16.8	28.0	
	nmol/l	37.8	28.4	47.3	Roche Cobas 4000/E411
	µg/dl	2.95	2.22	3.68	
	ng/ml	29.5	22.2	36.8	
	nmol/l	34.2	25.7	42.8	Roche Cobas e601/602
	µg/dl	2.67	2.00	3.34	
	ng/ml	26.7	20.0	33.4	
	nmol/l	27.8	20.9	34.8	Immunotech IRMA
	µg/dl	2.17	1.63	2.71	
	ng/ml	21.7	16.3	27.1	
	nmol/l	32.9	24.7	41.1	Diasorin Liaison XL
	µg/dl	2.57	1.93	3.21	
	ng/ml	25.7	19.3	32.1	
	nmol/l	29.7	22.3	37.1	Abbott Alinity i
	µg/dl	2.32	1.74	2.90	
ng/ml	23.2	17.4	29.0		
nmol/l	22.7	17.0	28.4	Siemens Atellica IM	
µg/dl	1.77	1.33	2.21		
ng/ml	17.7	13.3	22.1		
nmol/l	34.2	25.7	42.8	Roche Cobas e801	
µg/dl	2.67	2.00	3.34		
ng/ml	26.7	20.0	33.4		
Valproic Acid	µmol/l	223	178	268	Abbott Architect (CMIA)
	µg/ml	32.2	25.7	38.7	
	µmol/l	231	185	277	Siemens Centaur XP/XPT/Classic
	µg/ml	33.3	26.7	39.9	
	µmol/l	204	163	245	Siemens Dimension
	µg/ml	29.4	23.5	35.3	
	µmol/l	195	156	234	Siemens Immulite 2000/2500
	µg/ml	28.1	22.5	33.7	
	µmol/l	215	172	258	Siemens Immulite 1000
	µg/ml	31.0	24.8	37.2	
	µmol/l	200	160	240	Roche Integra
	µg/ml	28.9	23.1	34.7	
	µmol/l	205	164	246	Roche Cobas 6000/8000
	µg/ml	29.6	23.7	35.5	
	µmol/l	224	179	269	Beckman AU400/600/640/2700/5400
	µg/ml	32.3	25.8	38.8	
µmol/l	225	180	270	Siemens ADVIA 1200/1650/1800/2400	
µg/ml	32.5	26.0	39.0		

IAAI BC5 GG5 MDF9A± A'D@ G'@J9 @%f15'DF9A± A'D@ G'@

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Analyte	unit	Target	Range		methods	
			low	high		
Valproic Acid	µmol/l	198	158	238	Abbott Architect (PETINA)	
	µg/ml	28.6	22.8	34.4		
	µmol/l	228	182	274	EMIT	
	µg/ml	32.9	26.3	39.5		
	µmol/l	209	167	251	Siemens Atellica CH	
	µg/ml	30.2	24.1	36.3		
	µmol/l	191	153	229	Abbott Alinity (PETINA)	
	µg/ml	27.6	22.1	33.1		
	µmol/l	243	194	292	Gravimetric	
	µg/ml	35.1	28.0	42.1		
	Vancomycin	µmol/l	3.40	2.72	4.08	Roche Integra
		µg/ml	5.05	4.04	6.06	
µmol/l		3.26	2.61	3.91	Abbott Architect (CMIA)	
µg/ml		4.84	3.88	5.80		
µmol/l		2.49	1.99	2.99	Siemens Centaur XP/XPT/Classic	
µg/ml		3.70	2.96	4.44		
µmol/l		3.07	2.46	3.68	Siemens Dimension	
µg/ml		4.56	3.65	5.47		
µmol/l		3.10	2.48	3.72	Roche Cobas 6000/8000	
µg/ml		4.61	3.68	5.54		
µmol/l		3.04	2.43	3.65	Thermo Scientific QMS Vancomycin	
µg/ml		4.52	3.61	5.43		
µmol/l		3.04	2.43	3.65	Siemens Atellica CH	
µg/ml		4.52	3.61	5.43		
µmol/l		3.23	2.58	3.88	Abbott Alinity (PETINA)	
µg/ml		4.80	3.83	5.77		
µmol/l		3.43	2.74	4.12	Gravimetric	
µg/ml		5.10	4.07	6.12		
Vitamin B12	pmol/l	144	115	173	Abbott Architect	
	pg/ml	195	156	234		
	pmol/l	115	92.0	138	Siemens Centaur XP/XPT/Classic	
	pg/ml	156	125	187		
	pmol/l	115	92.0	138	Siemens Immulite 2000	
	pg/ml	156	125	187		
	pmol/l	89.8	71.8	108	Beckman DxI800	
	pg/ml	122	97.3	147		
	pmol/l	139	111	167	Roche Elecsys	
	pg/ml	188	150	226		
	pmol/l	94.5	75.6	113	Beckman Access	
	pg/ml	128	102	154		
	pmol/l	135	108	162	Tosoh Series	
	pg/ml	183	146	220		
	pmol/l	138	110	166	Vitros ECI	
	pg/ml	187	149	225		
	pmol/l	136	109	163	Roche Cobas 4000/e411 Gen II	
	pg/ml	184	148	220		

IAAI BC5 GG5 MDF9A± A`D@ G`@J9 @%f15 `DF9A± A`D@ G`%L

Cat. No. IA3109 / IA3112 Lot. No. 2074EC Size 12 x 5ml / 4 x 5ml Expiry 2024-07-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	134	107	161	Roche Cobas e601/602 Gen II
	pg/ml	182	145	219	
	pmol/l	129	103	155	Siemens Atellica IM
	pg/ml	175	140	210	
	pmol/l	222	178	266	Abbott Alinity i
	pg/ml	301	241	361	
Vitamin B12	pmol/l	129	103	155	Roche Cobas e801 Gen II
	pg/ml	175	140	210	