

IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods	
			low	high		
Testosterone	nmol/l	8.46	6.77	10.2	Diasorin Liaison XL	
	ng/ml	2.44	1.95	2.93		
	ng/dl	244	195	293		
	nmol/l	14.5	11.6	17.4	Siemens Atellica IM	
		ng/ml	4.18	3.34		5.02
		ng/dl	418	334		502
	nmol/l	14.7	11.8	17.6	Roche Cobas e801 Test II	
		ng/ml	4.23	3.40		5.06
		ng/dl	423	340		506
	nmol/l	14.2	11.4	17.0	Abbott Alinity i	
		ng/ml	4.09	3.28		4.90
		ng/dl	409	328		490
Theophylline	µmol/l	82.5	66.0	99.0	Siemens Centaur XP/XPT/Classic	
	µg/ml	14.9	11.9	17.9		
	µmol/l	86.0	68.8	103	Roche Integra	
		µg/ml	15.5	12.4		18.6
	µmol/l	77.3	61.8	92.8	Abbott Architect (CMIA)	
		µg/ml	13.9	11.1		16.7
	µmol/l	80.9	64.7	97.1	Roche Cobas 6000/8000	
		µg/ml	14.6	11.7		17.5
	µmol/l	81.2	65.0	97.4	Beckman AU400/600/640/2700/5400	
		µg/ml	14.6	11.7		17.5
	µmol/l	82.2	65.8	98.6	Abbott Alinity Enzyme-Immu	
		µg/ml	14.8	11.9		17.7
	µmol/l	83.8	67.0	101	Gravimetric	
		µg/ml	15.1	12.1		18.2
	Thyroglobulin	ng/ml	18.9	14.2	23.6	Siemens Immulite 1000
		ng/ml	18.7	14.0	23.4	Siemens Immulite 2000
ng/ml		40.8	30.6	51.0	Roche Elecsys	
ng/ml		35.6	26.7	44.5	Beckman Dxl800	
ng/ml		41.3	31.0	51.6	Roche Cobas 4000/E411	
ng/ml		39.3	29.5	49.1	Roche Cobas e601/602	
ng/ml		36.8	27.6	46.0	Beckman Access	
ng/ml		44.2	33.2	55.3	Abbott Architect 2000i	
ng/ml		39.9	29.9	49.9	Tosoh Series	
ng/ml		39.6	29.7	49.5	Roche Cobas e601/602 Tg II	
ng/ml		41.1	30.8	51.4	Roche Elecsys TGII	
ng/ml		40.3	30.2	50.4	Roche Cobas 4000/E411 TGII	
ng/ml		35.8	26.9	44.8	Diasorin Liaison XL	
ng/ml		41.2	30.9	51.5	Roche Cobas e801 Tg II	
ng/ml		35.6	26.7	44.5	DiaSorin Liaison TG II Gen	
ng/ml		36.2	27.2	45.3	DiaSorin Liaison XL TG II Gen	
ng/ml		43.6	32.7	54.5	Abbott Alinity i	
Thyroid Stimulating		µU/ml = mIU/l	2.18	1.74	2.62	Abbott Architect

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Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	2.67	2.14	3.20	bioMerieux VIDAS TSH
	µU/ml = mIU/l	2.46	1.97	2.95	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	2.62	2.10	3.14	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	3.19	2.55	3.83	CIS IRMA
	µU/ml = mIU/l	2.62	2.10	3.14	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	2.72	2.18	3.26	Siemens Immulite 2000/2500
	µU/ml = mIU/l	2.58	2.06	3.10	Siemens Immulite 1000
	µU/ml = mIU/l	2.49	1.99	2.99	Beckman Dxl800 Fast TSH
	µU/ml = mIU/l	2.43	1.94	2.92	Beckman Dxl800
	µU/ml = mIU/l	2.84	2.27	3.41	Roche Elecsys
	µU/ml = mIU/l	3.00	2.40	3.60	Diasorin Liaison
	µU/ml = mIU/l	2.41	1.93	2.89	Beckman Access Fast TSH
	µU/ml = mIU/l	2.41	1.93	2.89	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	2.74	2.19	3.29	Tosoh Series
	µU/ml = mIU/l	2.81	2.25	3.37	Vitros ECi
	µU/ml = mIU/l	2.85	2.28	3.42	Roche Cobas 4000/E411
	µU/ml = mIU/l	2.86	2.29	3.43	Roche Cobas e601/602
	µU/ml = mIU/l	2.75	2.20	3.30	ELISA
	µU/ml = mIU/l	2.46	1.97	2.95	Beckman Dxl800 Hyper TSH
	µU/ml = mIU/l	2.41	1.93	2.89	Siemens Dimension Vista LOCI
	µU/ml = mIU/l	2.62	2.10	3.14	Siemens Centaur XP/XPT/Classic TSH3-Ultra
	µU/ml = mIU/l	2.50	2.00	3.00	Siemens Centaur CP
	µU/ml = mIU/l	2.33	1.86	2.80	Siemens Centaur CP TSH3-Ultra
µU/ml = mIU/l	3.10	2.48	3.72	Mindray CL-2000i	
µU/ml = mIU/l	2.42	1.94	2.90	Beckman Dxl 600/800 Access (3rd IS)	
µU/ml = mIU/l	3.18	2.54	3.82	Diasorin Liaison XL	
µU/ml = mIU/l	2.54	2.03	3.05	Siemens Atellica IM	
µU/ml = mIU/l	2.19	1.75	2.63	Abbott Alinity i	
µU/ml = mIU/l	2.72	2.18	3.26	Roche Cobas e801	
Tobramycin	µmol/l	7.16	5.73	8.59	Gravimetric
	µg/ml	3.35	2.68	4.02	
Total Beta hCG	mU/ml=IU/l	17.0	13.6	20.4	Abbott Architect
	IU/ml	0.017	0.014	0.020	
	mU/ml=IU/l	27.9	22.3	33.5	BioMerieux Vidas
	IU/ml	0.028	0.022	0.034	
	mU/ml=IU/l	18.1	14.5	21.7	Siemens Centaur XP/XPT/Classic
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	30.5	24.4	36.6	Siemens Dimension
	IU/ml	0.031	0.024	0.038	
	mU/ml=IU/l	37.3	29.8	44.8	Siemens Immulite 2000
	IU/ml	0.037	0.030	0.044	
	mU/ml=IU/l	37.6	30.1	45.1	Siemens Immulite 1000
	IU/ml	0.038	0.030	0.046	
	mU/ml=IU/l	18.9	15.1	22.7	Beckman Dxl800
	IU/ml	0.019	0.015	0.023	
mU/ml=IU/l	14.7	11.8	17.6	Diasorin Liaison	
IU/ml	0.015	0.012	0.018		



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Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	19.4	15.5	23.3	Roche Cobas Core EIA
	IU/ml	0.019	0.016	0.022	
	mU/ml=IU/l	18.6	14.9	22.3	Beckman Access
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	29.5	23.6	35.4	Tosoh Series
	IU/ml	0.030	0.024	0.036	
	mU/ml=IU/l	31.8	25.4	38.2	Vitros ECI
	IU/ml	0.032	0.025	0.039	
	mU/ml=IU/l	14.7	11.8	17.6	Roche hCG STAT (Intact)
	IU/ml	0.015	0.012	0.018	
	mU/ml=IU/l	19.4	15.5	23.3	Roche hCG+Beta
	IU/ml	0.019	0.016	0.022	
	mU/ml=IU/l	18.4	14.7	22.1	Beckman Access Total BhCG (5th IS)
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	19.1	15.3	22.9	Beckman Dxl Total BhCG (5th IS)
	IU/ml	0.019	0.015	0.023	
	mU/ml=IU/l	18.3	14.6	22.0	Siemens Centaur CP
	IU/ml	0.018	0.015	0.021	
	mU/ml=IU/l	16.3	13.0	19.6	Diasorin Liaison XL
	IU/ml	0.016	0.013	0.019	
mU/ml=IU/l	19.6	15.7	23.5	Siemens Atellica IM	
IU/ml	0.020	0.016	0.024		
mU/ml=IU/l	17.3	13.8	20.8	Abbott Alinity i	
IU/ml	0.017	0.014	0.020		
mU/ml=IU/l	18.8	15.0	22.6	Roche hCG+Beta e801	
IU/ml	0.019	0.015	0.023		
Total T3	nmol/l	3.31	2.48	4.14	Abbott Architect
	ng/ml	2.15	1.61	2.69	
	ng/dl	215	161	269	
	nmol/l	3.87	2.90	4.84	BioMerieux Vidas
	ng/ml	2.52	1.89	3.15	
	ng/dl	252	189	315	
	nmol/l	4.19	3.14	5.24	Siemens Centaur XP/XPT/Classic
	ng/ml	2.73	2.04	3.42	
	ng/dl	273	204	342	
	nmol/l	3.47	2.60	4.34	Siemens Immulite 2000/2500
	ng/ml	2.26	1.69	2.83	
	ng/dl	226	169	283	
	nmol/l	3.43	2.57	4.29	Siemens Immulite 1000
	ng/ml	2.23	1.67	2.79	
	ng/dl	223	167	279	
	nmol/l	3.52	2.64	4.40	Beckman Dxl800
	ng/ml	2.29	1.72	2.86	
	ng/dl	229	172	286	
	nmol/l	4.03	3.02	5.04	Roche Elecsys
	ng/ml	2.62	1.97	3.27	
ng/dl	262	197	327		

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IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	3.55	2.66	4.44	Beckman Access
	ng/ml	2.31	1.73	2.89	
	ng/dl	231	173	289	
	nmol/l	3.70	2.78	4.63	Tosoh Series
	ng/ml	2.41	1.81	3.01	
	ng/dl	241	181	301	
	nmol/l	4.36	3.27	5.45	Vitros ECI
	ng/ml	2.84	2.13	3.55	
	ng/dl	284	213	355	
	nmol/l	3.01	2.26	3.76	CIS RIA Coated tube
	ng/ml	1.96	1.47	2.45	
	ng/dl	196	147	245	
	nmol/l	3.84	2.88	4.80	Roche Cobas 4000/E411
	ng/ml	2.50	1.87	3.13	
	ng/dl	250	187	313	
	nmol/l	3.85	2.89	4.81	Roche Cobas e601/602
	ng/ml	2.51	1.88	3.14	
	ng/dl	251	188	314	
	nmol/l	4.42	3.32	5.53	Siemens Centaur CP
	ng/ml	2.88	2.16	3.60	
ng/dl	288	216	360		
nmol/l	2.91	2.18	3.64	Diasorin Liaison XL	
ng/ml	1.89	1.42	2.36		
ng/dl	189	142	236		
nmol/l	3.33	2.50	4.16	Abbott Alinity i	
ng/ml	2.17	1.63	2.71		
ng/dl	217	163	271		
nmol/l	4.19	3.14	5.24	Siemens Atellica IM	
ng/ml	2.73	2.04	3.42		
ng/dl	273	204	342		
nmol/l	4.11	3.08	5.14	Roche Cobas e801	
ng/ml	2.68	2.01	3.35		
ng/dl	268	201	335		
Total T4	nmol/l	115	86.3	144	Abbott Architect
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	
	nmol/l	121	90.8	151	BioMerieux Vidas
	µg/dl	9.44	7.08	11.8	
	ng/ml	94.4	70.8	118	
	nmol/l	123	92.3	154	Siemens Centaur XP/XPT/Classic
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	115	86.3	144	Siemens Immulite 2000/2500
	µg/dl	8.97	6.73	11.2	
	ng/ml	89.7	67.3	112	



IMMUNOASSAY PREMIUM PLUS LEVEL 2 (IA PREMIUM PLUS 2)

Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	117	87.8	146	Siemens Immulite 1000
	µg/dl	9.13	6.85	11.4	
	ng/ml	91.3	68.5	114	
	nmol/l	120	90.0	150	Beckman DxI800
	µg/dl	9.36	7.02	11.7	
	ng/ml	93.6	70.2	117	
	nmol/l	109	81.8	136	Roche Elecsys
	µg/dl	8.50	6.38	10.6	
	ng/ml	85.0	63.8	106	
	nmol/l	122	91.5	153	Beckman Access
	µg/dl	9.52	7.14	11.9	
	ng/ml	95.2	71.4	119	
	nmol/l	112	84.0	140	Tosoh Series
	µg/dl	8.74	6.55	10.9	
	ng/ml	87.4	65.5	109	
	nmol/l	123	92.3	154	Vitros ECi
	µg/dl	9.59	7.20	12.0	
	ng/ml	95.9	72.0	120	
	nmol/l	113	84.8	141	CIS RIA Coated tube
	µg/dl	8.81	6.61	11.0	
	ng/ml	88.1	66.1	110	
	nmol/l	110	82.5	138	Roche Cobas 4000/E411
	µg/dl	8.58	6.44	10.7	
	ng/ml	85.8	64.4	107	
	nmol/l	107	80.3	134	Roche Cobas e601/602
	µg/dl	8.35	6.26	10.4	
	ng/ml	83.5	62.6	104	
	nmol/l	91.4	68.6	114	Immunotech IRMA
	µg/dl	7.13	5.35	8.91	
	ng/ml	71.3	53.5	89.1	
nmol/l	126	94.5	158	Siemens Centaur CP	
µg/dl	9.83	7.37	12.3		
ng/ml	98.3	73.7	123		
nmol/l	103	77.3	129	Diasorin Liaison XL	
µg/dl	8.03	6.03	10.0		
ng/ml	80.3	60.3	100		
nmol/l	112	84.0	140	Abbott Alinity i	
µg/dl	8.74	6.55	10.9		
ng/ml	87.4	65.5	109		
nmol/l	134	101	168	Siemens Atellica IM	
µg/dl	10.5	7.88	13.1		
ng/ml	105	78.8	131		
nmol/l	108	81.0	135	Roche Cobas e801	
µg/dl	8.42	6.32	10.5		
ng/ml	84.2	63.2	105		

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Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	516	413	619	Abbott Architect (CMIA)
	µg/ml	74.5	59.6	89.4	
	µmol/l	559	447	671	Siemens Centaur XP/XPT/Classic
	µg/ml	80.7	64.5	96.9	
	µmol/l	555	444	666	Siemens Dimension
	µg/ml	80.1	64.1	96.1	
	µmol/l	558	446	670	Siemens Immulite 2000/2500
	µg/ml	80.5	64.4	96.6	
	µmol/l	610	488	732	Siemens Immulite 1000
	µg/ml	88.0	70.4	106	
	µmol/l	525	420	630	Roche Integra
	µg/ml	75.8	60.6	91.0	
	µmol/l	545	436	654	Roche Cobas 6000/8000
	µg/ml	78.6	62.9	94.3	
	µmol/l	536	429	643	Beckman DxC
	µg/ml	77.3	61.9	92.7	
	µmol/l	574	459	689	Beckman AU400/600/640/2700/5400
	µg/ml	82.8	66.2	99.4	
	µmol/l	506	405	607	Abbott Architect (PETINA)
	µg/ml	73.0	58.4	87.6	
µmol/l	587	470	704	EMIT	
µg/ml	84.7	67.8	102		
µmol/l	545	436	654	Siemens Atellica CH	
µg/ml	78.6	62.9	94.3		
µmol/l	506	405	607	Abbott Alinity (CMIA)	
µg/ml	73.0	58.4	87.6		
µmol/l	516	413	619	Abbott Alinity (PETINA)	
µg/ml	74.5	59.6	89.4		
µmol/l	638	510	766	Gravimetric	
µg/ml	92.1	73.6	111		
Vancomycin	µmol/l	7.49	5.99	8.99	Roche Integra
	µg/ml	11.1	8.90	13.3	
	µmol/l	6.32	5.06	7.58	Ortho Vitros Microslide Systems
	µg/ml	9.39	7.52	11.3	
	µmol/l	8.34	6.67	10.0	Abbott Architect (CMIA)
	µg/ml	12.4	9.91	14.9	
	µmol/l	7.04	5.63	8.45	Siemens Centaur XP/XPT/Classic
	µg/ml	10.5	8.36	12.6	
	µmol/l	7.95	6.36	9.54	Siemens Dimension
	µg/ml	11.8	9.45	14.2	
	µmol/l	7.47	5.98	8.96	Roche Cobas 6000/8000
	µg/ml	11.1	8.88	13.3	
µmol/l	7.88	6.30	9.46	Thermo Scientific QMS Vancomycin	
µg/ml	11.7	9.36	14.0		
µmol/l	7.44	5.95	8.93	Siemens Atellica CH	
µg/ml	11.1	8.84	13.4		

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Cat. No. IA3110 / IA3112 Lot. No. 2124EC Size 12 x 5ml / 4 x 5ml Expiry 2024-10-28

Range					
Analyte	unit	Target	low	high	methods
Vancomycin	µmol/l	7.40	5.92	8.88	Abbott Alinity (PETINA)
	µg/ml	11.0	8.80	13.2	
	µmol/l	7.10	5.68	8.52	Gravimetric
	µg/ml	10.5	8.44	12.7	
Vitamin B12	pmol/l	354	283	425	Abbott Architect
	pg/ml	480	383	577	
	pmol/l	403	322	484	Siemens Centaur XP/XPT/Classic
	pg/ml	546	436	656	
	pmol/l	413	330	496	Siemens Immulite 2000
	pg/ml	560	447	673	
	pmol/l	300	240	360	Beckman Dxl800
	pg/ml	407	325	489	
	pmol/l	412	330	494	Roche Elecsys
	pg/ml	558	447	669	
	pmol/l	314	251	377	Beckman Access
	pg/ml	425	340	510	
	pmol/l	505	404	606	Tosoh Series
	pg/ml	684	547	821	
	pmol/l	402	322	482	Vitros Eci
	pg/ml	545	436	654	
	pmol/l	353	282	424	Siemens Dimension
	pg/ml	478	382	574	
	pmol/l	434	347	521	Siemens Centaur CP
	pg/ml	588	470	706	
	pmol/l	382	306	458	Roche Cobas 4000/e411 Gen II
	pg/ml	518	415	621	
	pmol/l	414	331	497	Roche Cobas e601/602 Gen II
	pg/ml	561	449	673	
pmol/l	311	249	373	Diasorin Liaison XL	
pg/ml	421	337	505		
pmol/l	436	349	523	Siemens Atellica IM	
pg/ml	591	473	709		
pmol/l	332	266	398	Abbott Alinity i	
pg/ml	450	360	540		
pmol/l	419	335	503	Roche Cobas e801 Gen II	
pg/ml	568	454	682		