

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

CAT. NO. IA2640	GTIN: 05055273203868	SIZE: 12 x 5 ml
CAT. NO. IA2633	GTIN: 05055273203837	SIZE: 4 x 5 ml
LOT NO. 2187EC	EXPIRY: 2025-06-28	

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.

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C.

ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

UNOPENED: Store refrigerated (+2°C to +8°C). Stable to expiration date printed on individual vials.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded and a fresh vial reconstituted.

PREPARATION

Immunoassay Premium is supplied lyophilized.

1. Carefully reconstitute each vial of lyophilised serum with exactly 5 ml of distilled water at +15°C to +25°C. Close the bottle and allow to stand for 30 minutes before use. Ensure contents are completely dissolved by swirling gently. Avoid formation of foam. Do not shake.
2. Refer to the Control section of the individual analyser application.
3. Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

MATERIALS PROVIDED

Immunoassay Premium - Level 3: 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. 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,
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IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
17-OH-Progesterone	nmol/l	46.7	35.0	58.4	DRG ELISA
	ng/ml	15.5	11.6	19.4	
	nmol/l	28.8	21.6	36.0	DIAsource RIA
	ng/ml	9.53	7.15	11.9	
25-OH Vitamin D	nmol/l	91.0	68.3	114	Diasorin Liaison
	nmol/l	126	94.5	158	Siemens Centaur XP/XPT/Classic
	nmol/l	79.5	59.6	99.0	Roche Vitamin D Total
	nmol/l	91.2	68.4	114	Abbott Architect (3L52)
	nmol/l	106	79.5	133	Vitros ECI
	nmol/l	82.3	61.7	103	Tosoh Series
	nmol/l	86.8	65.1	109	BioMerieux Vidas
	nmol/l	82.4	61.8	103	Beckman Dxl 600/800
	nmol/l	108	81.0	135	Fujirebio Lumipulse G Series
	nmol/l	83.3	62.5	104	Beckman Access 25 OH Vitamin D Total
	nmol/l	89.5	67.1	112	Abbott Architect (5P02)/ Alinity (8P45)
	nmol/l	100	75.0	125	Diasorin Liaison XL
	nmol/l	85.8	64.4	107	Roche Vitamin D Total II
	nmol/l	92.0	69.0	115	Abbott Alinity i
	nmol/l	121	90.8	151	Siemens Atellica IM
nmol/l	82.4	61.8	103	Roche Vitamin D Total II e801	
nmol/l	77.7	58.3	97.1	Roche Vitamin D Total III	
ACTH	pmol/l	49.9	37.4	62.4	Siemens Immulite 2000/2500
	pg/ml	227	170	284	
	pmol/l	59.5	44.6	74.4	Diasorin Liaison XL
	pg/ml	270	203	337	
	pmol/l	33.3	25.0	41.6	Roche Cobas e402/e801
	pg/ml	151	114	188	
Aldosterone	pmol/l	49.8	37.4	62.3	Tosoh AIA-CL Series
	pg/ml	226	170	282	
	pmol/l	710	533	888	Immunotech RIA
	pg/ml	256	192	320	
	pmol/l	451	338	564	IDS iSYS
	pg/ml	163	122	204	
Alphafoetoprotein	pmol/l	411	308	514	Diasorin Liaison
	pg/ml	148	111	185	
	pmol/l	464	348	580	Diasorin Liaison XL
	pg/ml	167	126	208	
	KIU/l = IU/ml	160	128	192	Abbott Architect
	ng/ml	194	155	233	
Alphafoetoprotein	KIU/l = IU/ml	164	131	197	BioMerieux Vidas
	ng/ml	198	159	237	
	KIU/l = IU/ml	183	146	220	Siemens Centaur XP/XPT/Classic
	ng/ml	221	177	265	

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Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Alphafoetoprotein	KIU/l = IU/ml	157	126	188	Siemens Immulite 2000/2500
	ng/ml	190	152	228	
	KIU/l = IU/ml	149	119	179	Beckman Dxl800
	ng/ml	180	144	216	
	KIU/l = IU/ml	177	142	212	Roche Elecsys
	ng/ml	214	172	256	
	KIU/l = IU/ml	199	159	239	Diasorin Liaison
	ng/ml	241	192	290	
	KIU/l = IU/ml	155	124	186	Beckman Access
	ng/ml	188	150	226	
	KIU/l = IU/ml	148	118	178	Tosoh Series
	ng/ml	179	143	215	
	KIU/l = IU/ml	162	130	194	Vitros ECi
	ng/ml	168	134	202	
	KIU/l = IU/ml	180	144	216	Roche Cobas e601/602
	ng/ml	218	174	262	
	KIU/l = IU/ml	183	146	220	Roche Cobas 4000/E411
	ng/ml	221	177	265	
	KIU/l = IU/ml	165	132	198	Fujirebio Lumipulse G Series
	ng/ml	200	160	240	
KIU/l = IU/ml	182	146	218	Siemens Centaur CP	
ng/ml	220	177	263		
KIU/l = IU/ml	182	146	218	Immunotech IRMA	
ng/ml	220	177	263		
KIU/l = IU/ml	168	134	202	Sysmex HISCL Series	
ng/ml	203	162	244		
KIU/l = IU/ml	171	137	205	Mindray CL Series	
ng/ml	207	166	248		
KIU/l = IU/ml	189	151	227	Diasorin Liaison XL	
ng/ml	229	183	275		
KIU/l = IU/ml	182	146	218	Siemens Atellica IM	
ng/ml	220	177	263		
KIU/l = IU/ml	160	128	192	Abbott Alinity i	
ng/ml	194	155	233		
KIU/l = IU/ml	170	136	204	Roche Cobas e402/e801	
ng/ml	206	165	247		
KIU/l = IU/ml	145	116	174	Tosoh AIA-CL Series	
ng/ml	175	140	210		
Amikacin	µmol/l	22.3	17.8	26.8	EMIT
	µg/ml	13.1	10.4	15.8	
	µmol/l	23.2	18.6	27.8	Roche Cobas 6000/8000
	µg/ml	13.6	10.9	16.3	
	µmol/l	24.3	19.4	29.2	Abbott Architect
	µg/ml	14.2	11.4	17.0	
µmol/l	23.6	18.9	28.3	Thermo Scientific QMS Amikacin	
µg/ml	13.8	11.1	16.5		

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Analyte	unit	Target	Range		methods	
			low	high		
Amikacin	µmol/l	24.4	19.5	29.3	Abbott Alinity	
	µg/ml	14.3	11.4	17.2		
	µmol/l	24.1	19.3	28.9	Gravimetric	
	µg/ml	14.1	11.3	16.9		
Androstenedione	nmol/l	30.0	22.5	37.5	Siemens Immulite 2000	
	ng/ml	8.61	6.46	10.8		
	nmol/l	17.4	13.1	21.8	DRG ELISA	
	ng/ml	4.99	3.76	6.22		
	nmol/l	17.5	13.1	21.9	Diasorin Liaison XL	
	ng/ml	5.02	3.76	6.28		
	Beta-2-microglobulin	µg/ml = mg/l	6.04	4.83	7.25	Abbott Architect
		µg/ml = mg/l	6.69	5.35	8.03	BioMerieux Vidas
µg/ml = mg/l		5.92	4.74	7.10	Behring Nephelometer	
µg/ml = mg/l		5.22	4.18	6.26	Siemens Immulite 2000/2500	
µg/ml = mg/l		5.51	4.41	6.61	Siemens Immulite 1000	
µg/ml = mg/l		5.82	4.66	6.98	Roche Cobas 6000/8000	
µg/ml = mg/l		5.93	4.74	7.12	Diasorin Liaison XL	
µg/ml = mg/l		6.64	5.31	7.97	Siemens Atellica CH	
µg/ml = mg/l		6.10	4.88	7.32	Abbott Alinity	
C-Peptide	nmol/l	2.900	2.180	3.630	Siemens Immulite 2000/2500	
	ng/ml	8.76	6.58	10.9		
	nmol/l	3.000	2.250	3.750	Roche Elecsys	
	ng/ml	9.06	6.79	11.3		
	nmol/l	2.960	2.220	3.700	Roche Cobas e601/602	
	ng/ml	8.94	6.70	11.2		
	nmol/l	3.050	2.290	3.810	Diasorin Liaison	
	ng/ml	9.21	6.91	11.5		
	nmol/l	2.990	2.240	3.740	Roche Cobas 4000/E411	
	ng/ml	9.03	6.76	11.3		
	nmol/l	2.820	2.120	3.530	Abbott Architect	
	ng/ml	8.51	6.40	10.6		
	nmol/l	2.160	1.620	2.700	Siemens Centaur XP/XPT/Classic	
	ng/ml	6.52	4.89	8.15		
	nmol/l	2.730	2.050	3.410	Tosoh Series	
	ng/ml	8.24	6.19	10.3		
	nmol/l	3.270	2.450	4.090	Diasorin Liaison XL	
	ng/ml	9.87	7.40	12.3		
	nmol/l	2.860	2.150	3.580	Roche Cobas e402/e801	
ng/ml	8.63	6.49	10.8			
nmol/l	1.950	1.460	2.440	Siemens Atellica IM		
ng/ml	5.89	4.41	7.37			
nmol/l	2.860	2.150	3.580	Vitros ECI		
ng/ml	8.63	6.49	10.8			
nmol/l	3.000	2.250	3.750	Tosoh AIA-CL Series		
ng/ml	9.06	6.79	11.3			

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Analyte	unit	Target	Range		methods
			low	high	
C-Peptide	nmol/l	2.730	2.050	3.410	Abbott Alinity i
	ng/ml	8.24	6.19	10.3	
Carbamazepine	µmol/l	70.0	56.0	84.0	Abbott Architect (CMIA)
	µg/ml	16.5	13.2	19.8	
	µmol/l	71.7	57.4	86.0	Siemens Centaur XP/XPT/Classic
	µg/ml	16.9	13.6	20.2	
	µmol/l	66.2	53.0	79.4	Siemens Dimension
	µg/ml	15.6	12.5	18.7	
	µmol/l	58.8	47.0	70.6	Siemens Immulite 2000/2500
	µg/ml	13.9	11.1	16.7	
	µmol/l	75.3	60.2	90.4	Roche Integra
	µg/ml	17.8	14.2	21.4	
	µmol/l	70.3	56.2	84.4	Roche Cobas 6000/8000
	µg/ml	16.6	13.3	19.9	
	µmol/l	71.4	57.1	85.7	Beckman AU400/600/640/2700/5400
	µg/ml	16.9	13.5	20.3	
	µmol/l	52.2	41.8	62.6	Abbott Architect (PETINA)
	µg/ml	12.3	9.88	14.7	
Carcinoembryonic Antigen (CEA)	µmol/l	65.6	52.5	78.7	Siemens Atellica CH
	µg/ml	15.5	12.4	18.6	
	µmol/l	51.5	41.2	61.8	Abbott Alinity (PETINA)
	µg/ml	12.2	9.74	14.7	
	µmol/l	72.2	57.8	86.6	Gravimetric
	µg/ml	17.1	13.7	20.5	
	ng/ml = µg/l	70.6	56.5	84.7	Abbott Architect
	ng/ml = µg/l	63.3	50.6	76.0	BioMerieux Vidas
	ng/ml = µg/l	59.1	47.3	70.9	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	86.8	69.4	104	Siemens Immulite 2000/2500
	ng/ml = µg/l	79.0	63.2	94.8	Siemens Immulite 1000
	ng/ml = µg/l	57.4	45.9	68.9	Beckman Dxl800
	ng/ml = µg/l	48.9	39.1	58.7	Roche Elecsys
	ng/ml = µg/l	58.9	47.1	70.7	Beckman Access
	ng/ml = µg/l	78.6	62.9	94.3	Tosoh Series
	ng/ml = µg/l	63.2	50.6	75.8	Vitros Eci
ng/ml = µg/l	50.0	40.0	60.0	Roche Cobas e601/602	
ng/ml = µg/l	58.1	46.5	69.7	Immunotech IRMA	
ng/ml = µg/l	50.1	40.1	60.1	Roche Cobas 4000/E411	
ng/ml = µg/l	83.8	67.0	101	Fujirebio Lumipulse G Series	
ng/ml = µg/l	77.2	61.8	92.6	Boditech Med Inc i-CHROMA	
ng/ml = µg/l	63.2	50.6	75.8	Siemens Centaur CP	
ng/ml = µg/l	62.7	50.2	75.2	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
ng/ml = µg/l	67.5	54.0	81.0	Diasorin Liaison XL	
ng/ml = µg/l	58.9	47.1	70.7	Siemens Atellica IM	
ng/ml = µg/l	50.8	40.6	61.0	Roche Cobas e402/e801	
ng/ml = µg/l	69.8	55.8	83.8	Abbott Alinity i	
Cortisol	nmol/l	904	678	1130	Abbott Architect
	µg/dl	32.5	24.4	40.6	

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Analyte	unit	Target	Range		methods
			low	high	
Cortisol	nmol/l	958	719	1198	BioMerieux Vidas
	µg/dl	34.5	25.9	43.1	
	nmol/l	1149	862	1436	Siemens Centaur XP/XPT/Classic
	µg/dl	41.4	31.0	51.8	
	nmol/l	899	674	1124	Siemens Immulite 2000/2500
	µg/dl	32.4	24.3	40.5	
	nmol/l	999	749	1249	Siemens Immulite 1000
	µg/dl	36.0	27.0	45.0	
	nmol/l	1033	775	1291	Beckman Dxl800
	µg/dl	37.2	27.9	46.5	
	nmol/l	975	731	1219	Roche Elecsys
	µg/dl	35.1	26.3	43.9	
	nmol/l	1119	839	1399	Beckman Access
	µg/dl	40.3	30.2	50.4	
	nmol/l	1070	803	1338	Tosoh Series
	µg/dl	38.5	28.9	48.1	
	nmol/l	922	692	1153	Vitros ECI
	µg/dl	33.2	24.9	41.5	
	nmol/l	1005	754	1256	Roche Cobas e601/602
	µg/dl	36.2	27.1	45.3	
nmol/l	1051	788	1314	Roche Cobas 4000/E411	
µg/dl	37.8	28.4	47.2		
nmol/l	1034	776	1293	Immunotech RIA	
µg/dl	37.2	27.9	46.5		
nmol/l	1359	1019	1699	Siemens Centaur CP	
µg/dl	48.9	36.7	61.1		
nmol/l	1049	787	1311	Roche Cobas 4000/e411 Gen II	
µg/dl	37.8	28.3	47.3		
nmol/l	994	746	1243	Roche Cobas e601/602 Gen II	
µg/dl	35.8	26.9	44.7		
nmol/l	1039	779	1299	Roche Elecsys Gen II	
µg/dl	37.4	28.0	46.8		
nmol/l	1134	851	1418	Diasorin Liaison XL	
µg/dl	40.8	30.6	51.0		
nmol/l	1217	913	1521	Siemens Atellica IM	
µg/dl	43.8	32.9	54.7		
nmol/l	985	739	1231	Roche Cobas e402/e801	
µg/dl	35.5	26.6	44.4		
nmol/l	1086	815	1358	Tosoh AIA-CL Series	
µg/dl	39.1	29.3	48.9		
nmol/l	897	673	1121	Abbott Alinity i	
µg/dl	32.3	24.2	40.4		
DHEA-S	µmol/l	20.8	16.6	25.0	Abbott Architect
	µmol/l	18.0	14.4	21.6	Siemens Immulite 2000/2500
	µmol/l	18.8	15.0	22.6	Siemens Immulite 1000

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Analyte	unit	Target	Range		methods
			low	high	
DHEA-S	µmol/l	17.1	13.7	20.5	Beckman Dxl800
	µmol/l	19.6	15.7	23.5	Beckman Access
	µmol/l	17.3	13.8	20.8	Siemens Centaur XP/XPT/Classic
	µmol/l	26.4	21.1	31.7	Roche Cobas 4000/E411
	µmol/l	25.8	20.6	31.0	Roche Cobas e601/602
	µmol/l	17.3	13.8	20.8	Diasorin Liaison XL
	µmol/l	16.0	12.8	19.2	Siemens Atellica IM
	µmol/l	26.0	20.8	31.2	Roche Cobas e402/e801
Digoxin	nmol/l	4.05	3.24	4.86	Abbott Architect (CMIA)
	ng/ml	3.16	2.53	3.79	
	nmol/l	4.62	3.70	5.54	BioMerieux Vidas
	ng/ml	3.61	2.89	4.33	
	nmol/l	5.50	4.40	6.60	Siemens Centaur XP/XPT/Classic
	ng/ml	4.30	3.44	5.16	
	nmol/l	5.00	4.00	6.00	Siemens Dimension
	ng/ml	3.91	3.12	4.70	
	nmol/l	4.93	3.94	5.92	Beckman Dxl800
	ng/ml	3.85	3.08	4.62	
	nmol/l	4.89	3.91	5.87	Roche Cobas e601/602
	ng/ml	3.82	3.05	4.59	
	nmol/l	5.22	4.18	6.26	Beckman AU400/600/640/2700/5400
	ng/ml	4.08	3.26	4.90	
	nmol/l	5.13	4.10	6.16	Roche Cobas 4000/E411
	ng/ml	4.01	3.20	4.82	
	nmol/l	4.69	3.75	5.63	Abbott Architect (PETINA)
	ng/ml	3.66	2.93	4.39	
	nmol/l	4.72	3.78	5.66	Roche Cobas e402/e801
	ng/ml	3.69	2.95	4.43	
nmol/l	6.18	4.94	7.42	Siemens Atellica IM	
ng/ml	4.83	3.86	5.80		
nmol/l	4.66	3.73	5.59	Siemens Atellica CH	
ng/ml	3.64	2.91	4.37		
nmol/l	4.66	3.73	5.59	Abbott Alinity (CMIA)	
ng/ml	3.64	2.91	4.37		
nmol/l	4.80	3.84	5.76	Abbott Alinity (PETINA)	
ng/ml	3.75	3.00	4.50		
nmol/l	5.12	4.10	6.14	Gravimetric	
ng/ml	4.00	3.20	4.80		
Ethosuximide	µmol/l	493	395	592	Gravimetric
	µg/ml	70.0	56.0	83.9	
Ferritin	ng/ml = µg/l	343	274	412	Abbott Architect
	ng/ml = µg/l	237	190	284	BioMerieux Vidas
	ng/ml = µg/l	243	194	292	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	292	234	350	Siemens Dimension
	ng/ml = µg/l	275	220	330	Siemens Immulite 2000/2500

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Analyte	unit	Target	Range		methods
			low	high	
Ferritin	ng/ml = µg/l	226	181	271	Siemens Immulite 1000
	ng/ml = µg/l	217	174	260	Beckman Dxl800
	ng/ml = µg/l	325	260	390	Roche Elecsys/Cobas e411
	ng/ml = µg/l	334	267	401	Diasorin Liaison
	ng/ml = µg/l	318	254	382	Roche Modular E170 / Roche Cobas e601/602
	ng/ml = µg/l	221	177	265	Beckman Access
	ng/ml = µg/l	225	180	270	Tosoh Series
	ng/ml = µg/l	197	158	236	Vitros ECI
	ng/ml = µg/l	311	249	373	Roche Cobas 4000/c311
	ng/ml = µg/l	259	207	311	Beckman AU400/600/640/2700/5400
	ng/ml = µg/l	298	238	358	Roche Cobas c501/502/503/701/702
	ng/ml = µg/l	234	187	281	Siemens Centaur CP
	ng/ml = µg/l	323	258	388	Diasorin Liaison XL
	ng/ml = µg/l	351	281	421	Abbott Alinity i
	ng/ml = µg/l	227	182	272	Siemens Atellica IM
ng/ml = µg/l	313	250	376	Roche Cobas e402/e801	
Folate	nmol/l	17.0	12.9	21.1	Abbott Architect
	ng/ml	7.50	5.69	9.31	
	nmol/l	40.5	30.8	50.2	Siemens Centaur XP/XPT/Classic (enhanced kit)
	ng/ml	17.9	13.6	22.2	
	nmol/l	14.5	11.0	18.0	Siemens Immulite 2000
	ng/ml	6.39	4.85	7.93	
	nmol/l	19.9	15.1	24.7	Beckman Dxl 600 / 800 - A14208
	ng/ml	8.78	6.66	10.9	
	nmol/l	20.4	15.5	25.3	Beckman Access
	ng/ml	9.00	6.84	11.2	
	nmol/l	31.0	23.6	38.4	Tosoh Series
	ng/ml	13.7	10.4	17.0	
	nmol/l	12.8	9.73	15.9	Vitros ECI
	ng/ml	5.64	4.29	6.99	
	nmol/l	11.0	8.36	13.6	Siemens Dimension
	ng/ml	4.85	3.69	6.01	
	nmol/l	20.3	15.4	25.2	Beckman Dxl 600 / 800 - A98032
	ng/ml	8.95	6.79	11.1	
	nmol/l	21.0	16.0	26.0	Roche Folate III - 04476433
	ng/ml	9.26	7.06	11.5	
	nmol/l	21.4	16.3	26.5	Roche Elecsys Folate
	ng/ml	9.44	7.19	11.7	
	nmol/l	21.2	16.1	26.3	Roche Folate III - 07559992
ng/ml	9.35	7.10	11.6		
nmol/l	35.8	27.2	44.4	Siemens Atellica IM	
ng/ml	15.8	12.0	19.6		
nmol/l	18.4	14.0	22.8	Abbott Alinity i	
ng/ml	8.11	6.17	10.1		
nmol/l	22.1	16.8	27.4	Roche Folate 07027290 e801	
ng/ml	9.75	7.41	12.1		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	24.8	18.6	31.0	Abbott Architect, 2 point calibration
	ng/dl	1.61	1.21	2.01	
	pg/ml	16.1	12.1	20.1	
	pmol/l	23.5	17.6	29.4	BioMerieux Vidas
	ng/dl	1.53	1.14	1.92	
	pg/ml	15.3	11.5	19.1	
	pmol/l	23.5	17.6	29.4	Siemens Centaur XP/XPT/Classic
	ng/dl	1.53	1.14	1.92	
	pg/ml	15.3	11.5	19.1	
	pmol/l	14.8	11.1	18.5	Siemens Immulite 2000/2500
	ng/dl	0.962	0.722	1.20	
	pg/ml	9.63	7.23	12.0	
	pmol/l	15.3	11.5	19.1	Siemens Immulite 1000
	ng/dl	0.995	0.748	1.24	
	pg/ml	9.96	7.49	12.4	
	pmol/l	16.4	12.3	20.5	Beckman Dxl800
	ng/dl	1.07	0.800	1.34	
	pg/ml	10.7	8.01	13.4	
	pmol/l	28.3	21.2	35.4	Roche Elecsys
	ng/dl	1.84	1.38	2.30	
	pg/ml	18.4	13.8	23.0	
	pmol/l	32.7	24.5	40.9	Diasorin Liaison
	ng/dl	2.13	1.59	2.67	
	pg/ml	21.3	15.9	26.7	
	pmol/l	18.1	13.6	22.6	Beckman Access
	ng/dl	1.18	0.884	1.48	
	pg/ml	11.8	8.85	14.8	
	pmol/l	36.8	27.6	46.0	Tosoh Series
	ng/dl	2.39	1.79	2.99	
	pg/ml	24.0	18.0	30.0	
pmol/l	35.0	26.3	43.8	Vitros ECi	
ng/dl	2.28	1.71	2.85		
pg/ml	22.8	17.1	28.5		
pmol/l	28.5	21.4	35.6	Roche Cobas 4000/E411	
ng/dl	1.85	1.39	2.31		
pg/ml	18.6	13.9	23.3		
pmol/l	28.7	21.5	35.9	Roche Cobas e601/602	
ng/dl	1.87	1.40	2.34		
pg/ml	18.7	14.0	23.4		
pmol/l	27.3	20.5	34.1	Fujirebio Lumipulse G Series	
ng/dl	1.77	1.33	2.21		
pg/ml	17.8	13.3	22.3		
pmol/l	24.5	18.4	30.6	Siemens Centaur CP	
ng/dl	1.59	1.20	1.98		
pg/ml	15.9	12.0	19.8		
pmol/l	23.1	17.3	28.9	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
ng/dl	1.50	1.12	1.88		
pg/ml	15.0	11.3	18.7		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T3	pmol/l	25.6	19.2	32.0	Sysmex HISCL Series
	ng/dl	1.66	1.25	2.07	
	pg/ml	16.7	12.5	20.9	
	pmol/l	34.3	25.7	42.9	Diasorin Liaison XL
	ng/dl	2.23	1.67	2.79	
	pg/ml	22.3	16.7	27.9	
	pmol/l	26.2	19.7	32.8	Siemens Atellica IM
	ng/dl	1.70	1.28	2.12	
	pg/ml	17.1	12.8	21.4	
	pmol/l	25.3	19.0	31.6	Abbott Alinity, 2 point cal
	ng/dl	1.64	1.24	2.04	
	pg/ml	16.5	12.4	20.6	
	pmol/l	24.8	18.6	31.0	Abbott Architect, 6 point calibration
	ng/dl	1.61	1.21	2.01	
	pg/ml	16.1	12.1	20.1	
	pmol/l	28.2	21.2	35.3	Roche Cobas e402/e801
	ng/dl	1.83	1.38	2.28	
	pg/ml	18.4	13.8	23.0	
pmol/l	27.4	20.6	34.3	Tosoh AIA-CL Series	
ng/dl	1.78	1.34	2.22		
pg/ml	17.8	13.4	22.2		
pmol/l	25.2	18.9	31.5	Abbott Alinity, 6 point cal	
ng/dl	1.64	1.23	2.05		
pg/ml	16.4	12.3	20.5		
Free T4	pmol/l	50.5	37.9	63.1	Abbott Architect
	ng/dl	3.94	2.96	4.92	
	pg/ml	39.4	29.6	49.2	
	pmol/l	51.5	38.6	64.4	Siemens Centaur XP/XPT/Classic
	ng/dl	4.02	3.01	5.03	
	pg/ml	40.2	30.1	50.3	
	pmol/l	73.2	54.9	91.5	Siemens Immulite 2000/2500
	ng/dl	5.71	4.28	7.14	
	pg/ml	57.1	42.8	71.4	
	pmol/l	73.5	55.1	91.9	Siemens Immulite 1000
	ng/dl	5.73	4.30	7.16	
	pg/ml	57.3	43.0	71.6	
	pmol/l	58.4	43.8	73.0	Beckman DxI800
	ng/dl	4.56	3.42	5.70	
	pg/ml	45.6	34.2	57.0	
	pmol/l	71.2	53.4	89.0	Roche Elecsys
	ng/dl	5.55	4.17	6.93	
	pg/ml	55.5	41.7	69.3	
pmol/l	100	75.0	125	Diasorin Liaison	
ng/dl	7.80	5.85	9.75		
pg/ml	78.0	58.5	97.5		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	54.8	41.1	68.5	Beckman Access
	ng/dl	4.27	3.21	5.33	
	pg/ml	42.7	32.1	53.3	
	pmol/l	73.3	55.0	91.6	Tosoh Series
	ng/dl	5.72	4.29	7.15	
	pg/ml	57.2	42.9	71.5	
	pmol/l	89.8	67.4	112	Vitros ECI
	ng/dl	7.00	5.26	8.74	
	pg/ml	70.0	52.6	87.4	
	pmol/l	73.6	55.2	92.0	BioMerieux Vidas
	ng/dl	5.74	4.31	7.17	
	pg/ml	57.4	43.1	71.7	
	pmol/l	74.3	55.7	92.9	Roche Cobas e601/602
	ng/dl	5.80	4.34	7.26	
	pg/ml	58.0	43.4	72.6	
	pmol/l	72.2	54.2	90.3	Roche Cobas 4000/E411
	ng/dl	5.63	4.23	7.03	
	pg/ml	56.3	42.3	70.3	
	pmol/l	76.9	57.7	96.1	Biomerieux Vidas FT4N Kit
	ng/dl	6.00	4.50	7.50	
	pg/ml	60.0	45.0	75.0	
	pmol/l	56.0	42.0	70.0	Immunotech RIA
	ng/dl	4.37	3.28	5.46	
	pg/ml	43.7	32.8	54.6	
	pmol/l	69.1	51.8	86.4	Fujirebio Lumipulse G Series
	ng/dl	5.39	4.04	6.74	
	pg/ml	53.9	40.4	67.4	
	pmol/l	84.7	63.5	106	Siemens Dimension Exl LOCI
	ng/dl	6.61	4.95	8.27	
	pg/ml	66.1	49.5	82.7	
pmol/l	54.8	41.1	68.5	Siemens Centaur CP	
ng/dl	4.27	3.21	5.33		
pg/ml	42.7	32.1	53.3		
pmol/l	58.4	43.8	73.0	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i	
ng/dl	4.56	3.42	5.70		
pg/ml	45.6	34.2	57.0		
pmol/l	89.1	66.8	111	Sysmex HISCL Series	
ng/dl	6.95	5.21	8.69		
pg/ml	69.5	52.1	86.9		
pmol/l	115	86.3	144	Diasorin Liaison XL	
ng/dl	8.97	6.73	11.2		
pg/ml	89.7	67.3	112		
pmol/l	54.3	40.7	67.9	Siemens Atellica IM	
ng/dl	4.24	3.17	5.31		
pg/ml	42.4	31.7	53.1		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Free T4	pmol/l	47.5	35.6	59.4	Abbott Alinity i
	ng/dl	3.71	2.78	4.64	
	pg/ml	37.1	27.8	46.4	
	pmol/l	76.4	57.3	95.5	Roche Cobas e402/e801
	ng/dl	5.96	4.47	7.45	
	pg/ml	59.6	44.7	74.5	
	pmol/l	67.7	50.8	84.6	Tosoh AIA-CL Series
ng/dl	5.28	3.96	6.60		
pg/ml	52.8	39.6	66.0		
FSH	mU/ml	53.8	43.0	64.6	Abbott Architect
	mU/ml	71.5	57.2	85.8	BioMerieux Vidas
	mU/ml	81.5	65.2	97.8	Siemens Centaur XP/XPT/Classic
	mU/ml	63.1	50.5	75.7	Siemens Immulite 2000/2500
	mU/ml	60.8	48.6	73.0	Siemens Immulite 1000
	mU/ml	66.6	53.3	79.9	Beckman Dxl800
	mU/ml	55.5	44.4	66.6	Roche/BM Elecsys
	mU/ml	64.8	51.8	77.8	Beckman Access
	mU/ml	65.9	52.7	79.1	Tosoh Series
	mU/ml	46.5	37.2	55.8	Vitros Eci
	mU/ml	58.9	47.1	70.7	Roche Cobas 4000/E411
	mU/ml	54.2	43.4	65.0	Roche Cobas e601/602
	mU/ml	74.5	59.6	89.4	Siemens Centaur CP
	mU/ml	80.8	64.6	97.0	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	mU/ml	92.4	73.9	111	Diasorin Liaison XL
	mU/ml	79.9	63.9	95.9	Siemens Atellica IM
	mU/ml	54.0	43.2	64.8	Abbott Alinity i
mU/ml	55.6	44.5	66.7	Roche Cobas e402/e801	
Gentamicin	µmol/l	9.48	7.58	11.4	Roche Integra
	µg/ml	4.53	3.62	5.44	
	µmol/l	13.4	10.7	16.1	Siemens Centaur XP/XPT/Classic
	µg/ml	6.41	5.11	7.71	
	µmol/l	11.9	9.52	14.3	Abbott Architect (CMIA)
	µg/ml	5.69	4.55	6.83	
	µmol/l	8.23	6.58	9.88	Roche Cobas 6000/8000 Online KIMS
	µg/ml	3.93	3.15	4.71	
	µmol/l	11.5	9.20	13.8	Siemens Atellica CH
	µg/ml	5.50	4.40	6.60	
µmol/l	12.1	9.68	14.5	Abbott Alinity (PETINA)	
µg/ml	5.78	4.63	6.93		
µmol/l	11.7	9.36	14.0	Gravimetric	
µg/ml	5.59	4.47	6.69		
Growth Hormone (GH)	µU/ml	40.2	32.2	48.2	Siemens Immulite 2000/2500
	ng/ml	13.4	10.7	16.1	
	µU/ml	37.4	29.9	44.9	Siemens Immulite 1000
	ng/ml	12.5	9.96	15.0	
	µU/ml	30.2	24.2	36.2	Beckman Dxl800
ng/ml	10.1	8.06	12.1		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Growth Hormone (GH)	μU/ml	32.2	25.8	38.6	Beckman Access
	ng/ml	10.7	8.59	12.8	
	μU/ml	32.3	25.8	38.8	Diasorin Liaison
	ng/ml	10.8	8.59	13.0	
	μU/ml	40.3	32.2	48.4	Roche Cobas 4000/E411
	ng/ml	13.4	10.7	16.1	
	μU/ml	40.0	32.0	48.0	Roche Cobas e601/602
	ng/ml	13.3	10.7	15.9	
	μU/ml	32.7	26.2	39.2	Diasorin Liaison XL
	ng/ml	10.9	8.72	13.1	
	μU/ml	40.7	32.6	48.8	Roche Cobas e402/e801
	ng/ml	13.6	10.9	16.3	
	μU/ml	35.7	28.6	42.8	Tosoh AIA-CL Series
	ng/ml	11.9	9.52	14.3	
Immunoglobulin E	KIU/l = IU/ml	428	342	514	Abbott Architect
	KIU/l = IU/ml	448	358	538	BioMerieux Vidas
	KIU/l = IU/ml	483	386	580	Siemens Centaur XP/XPT/Classic
	KIU/l = IU/ml	465	372	558	Siemens Immulite 2000/2500
	KIU/l = IU/ml	562	450	674	Siemens Immulite 1000
	KIU/l = IU/ml	496	397	595	Roche Elecsys
	KIU/l = IU/ml	455	364	546	Pharmacia Unicap
	KIU/l = IU/ml	435	348	522	Tosoh Series
	KIU/l = IU/ml	493	394	592	Roche Cobas 4000/E411
	KIU/l = IU/ml	499	399	599	Roche Cobas e601/602
	KIU/l = IU/ml	480	384	576	Siemens Centaur CP
	KIU/l = IU/ml	497	398	596	Agappe Mispa i2
	KIU/l = IU/ml	498	398	598	Siemens Atellica IM
	KIU/l = IU/ml	481	385	577	Roche Cobas e402/e801
	KIU/l = IU/ml	418	334	502	Abbott Alinity
Insulin	mU/l	31.4	23.6	39.3	Siemens Centaur XP/XPT/Classic
	μU/ml	31.4	23.6	39.2	
	mU/l	9.68	7.26	12.1	Siemens Immulite 1000
	μU/ml	9.68	7.26	12.1	
	mU/l	28.9	21.7	36.1	Roche Elecsys
	μU/ml	28.9	21.7	36.1	
	mU/l	29.9	22.4	37.4	Beckman Access
	μU/ml	29.9	22.4	37.4	
	mU/l	25.3	19.0	31.6	Abbott Architect
	μU/ml	25.3	19.0	31.6	
	mU/l	30.1	22.6	37.6	Tosoh Series
	μU/ml	30.1	22.6	37.6	
	mU/l	29.8	22.4	37.3	Roche Cobas 4000/E411
	μU/ml	29.8	22.4	37.2	
mU/l	28.3	21.2	35.4	Beckman Dxl 600/800	
μU/ml	28.3	21.2	35.4		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Insulin	mU/l	28.8	21.6	36.0	Roche Cobas 6000/8000
	µU/ml	28.8	21.6	36.0	
	mU/l	29.2	21.9	36.5	Mindray CL Series
	µU/ml	29.2	21.9	36.5	
	mU/l	34.5	25.9	43.1	Diasorin Liaison XL
	µU/ml	34.5	25.9	43.1	
	mU/l	31.2	23.4	39.0	Siemens Atellica IM
	µU/ml	31.2	23.4	39.0	
Luteinising Hormone (LH)	mU/ml	23.5	17.6	29.4	Abbott Alinity i
	µU/ml	23.5	17.6	29.4	
	mU/l	30.0	22.5	37.5	Tosoh AIA-CL Series
	µU/ml	30.0	22.5	37.5	
	mU/ml	40.7	32.6	48.8	Abbott Architect
	mU/ml	49.3	39.4	59.2	BioMerieux Vidas
	mU/ml	48.5	38.8	58.2	Siemens Centaur XP/XPT/Classic
	mU/ml	72.6	58.1	87.1	Siemens Immulite 2000
	mU/ml	75.1	60.1	90.1	Siemens Immulite 1000
	mU/ml	40.6	32.5	48.7	Beckman Dxl800
	mU/ml	54.3	43.4	65.2	Roche Elecsys
	mU/ml	41.1	32.9	49.3	Beckman Access
	mU/ml	47.4	37.9	56.9	Tosoh Series
	mU/ml	61.2	49.0	73.4	Vitros ECi
Oestradiol	mU/ml	54.9	43.9	65.9	Roche Cobas 4000/E411
	mU/ml	53.6	42.9	64.3	Roche Cobas e601/602
	mU/ml	48.0	38.4	57.6	Siemens Centaur CP
	mU/ml	56.9	45.5	68.3	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	mU/ml	66.6	53.3	79.9	Diasorin Liaison XL
	mU/ml	49.5	39.6	59.4	Siemens Atellica IM
	mU/ml	41.3	33.0	49.6	Abbott Alinity i
	mU/ml	54.1	43.3	64.9	Roche Cobas e402/e801
	pmol/l	1267	1014	1520	Abbott Architect
	pg/ml	345	276	414	
	pmol/l	2906	2325	3487	BioMerieux Vidas
	pg/ml	790	632	948	
	pmol/l	2460	1968	2952	Siemens Centaur XP/XPT/Classic
	pg/ml	669	535	803	
pmol/l	2116	1693	2539	Siemens Immulite 2000/2500	
pg/ml	576	460	692		
pmol/l	2061	1649	2473	Siemens Immulite 1000	
pg/ml	561	449	673		
pmol/l	1379	1103	1655	Beckman Dxl800	
pg/ml	375	300	450		
pmol/l	1421	1137	1705	Roche Elecsys (Estradiol II)	
pg/ml	387	309	465		
pmol/l	1520	1216	1824	Beckman Access	
pg/ml	413	331	495		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Oestradiol	pmol/l	1800	1440	2160	Tosoh (E2)
	pg/ml	490	392	588	
	pmol/l	2619	2095	3143	Vitros ECi
	pg/ml	712	570	854	
	pmol/l	1480	1184	1776	Roche Cobas e601/602 (Estradiol II)
	pg/ml	403	322	484	
	pmol/l	1475	1180	1770	Roche Cobas 4000/E411 (Estradiol II)
	pg/ml	401	321	481	
	pmol/l	2437	1950	2924	Siemens Centaur XP/XPT/Classic Enhanced (eE2)
	pg/ml	663	530	796	
	pmol/l	1691	1353	2029	Tosoh (iE2-hsE2)
	pg/ml	460	368	552	
	pmol/l	2431	1945	2917	Siemens Centaur CP Enhanced (eE2)
	pg/ml	661	529	793	
	pmol/l	1491	1193	1789	Roche Cobas e601/602 (Estradiol III)
	pg/ml	406	324	488	
	pmol/l	1459	1167	1751	Roche Elecsys (Estradiol III)
	pg/ml	397	317	477	
	pmol/l	1457	1166	1748	Roche Cobas 4000/E411 (Estradiol III)
	pg/ml	396	317	475	
pmol/l	2120	1696	2544	Mindray CL Series	
pg/ml	577	461	693		
pmol/l	1105	884	1326	Diasorin Liaison XL	
pg/ml	301	240	362		
pmol/l	1552	1242	1862	Beckman Access / Access 2 Sensitive B84493	
pg/ml	422	338	506		
pmol/l	1391	1113	1669	Beckman DxI600/800 Sensitive B84493	
pg/ml	378	303	453		
pmol/l	2582	2066	3098	Siemens Atellica IM	
pg/ml	702	562	842		
pmol/l	1233	986	1480	Abbott Alinity i	
pg/ml	335	268	402		
pmol/l	1494	1195	1793	Roche Cobas e801 (Estradiol III)	
pg/ml	406	325	487		
pmol/l	1697	1358	2036	Tosoh AIA-CL Series	
pg/ml	462	369	555		
Paracetamol	mmol/l	0.477	0.382	0.572	Roche Cobas c501/502/503/701/702
	mg/l	72.2	57.8	86.6	
	mmol/l	0.455	0.364	0.546	Beckman AU Instruments
	mg/l	68.8	55.1	82.5	
	mmol/l	0.497	0.398	0.596	Abbott Alinity
	mg/l	75.2	60.2	90.2	
Phenobarbital	mmol/l	0.529	0.423	0.635	Gravimetric
	mg/l	80.0	64.0	96.0	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods	
			low	high		
Phenobarbital	µmol/l	111	88.8	133	Roche Cobas e601/602/801	
	µg/ml	25.8	20.6	31.0		
	µmol/l	116	92.8	139	Beckman AU400/600/640/2700/5400	
	µg/ml	26.9	21.5	32.3		
	µmol/l	163	130	196	Siemens Centaur XP/XPT/Classic	
	µg/ml	37.8	30.2	45.4		
	µmol/l	117	93.6	140	Roche Integra	
	µg/ml	27.1	21.7	32.5		
	µmol/l	117	93.6	140	Roche Cobas C303/501/502/503/701	
	µg/ml	27.1	21.7	32.5		
	µmol/l	113	90.4	136	Abbott Architect (PETINA)	
	µg/ml	26.2	21.0	31.4		
	µmol/l	123	98.4	148	Siemens Atellica CH	
	µg/ml	28.5	22.8	34.2		
Phenytoin	µmol/l	110	88.0	132	Abbott Alinity (PETINA)	
	µg/ml	25.5	20.4	30.6		
	µmol/l	121	96.8	145	Gravimetric	
	µg/ml	28.1	22.5	33.6		
	Phenytoin	µmol/l	94.8	75.8	114	Abbott Architect
		µg/ml	23.9	19.1	28.7	
		µmol/l	131	105	157	Siemens Centaur XP/XPT/Classic
		µg/ml	33.1	26.5	39.7	
		µmol/l	102	81.6	122	Siemens Dimension
		µg/ml	25.8	20.6	31.0	
		µmol/l	86.8	69.4	104	Siemens Immulite 2000/2500
		µg/ml	21.9	17.5	26.3	
		µmol/l	92.3	73.8	111	Roche Integra
		µg/ml	23.3	18.6	28.0	
µmol/l		93.5	74.8	112	Roche Cobas 6000/8000	
µg/ml		23.6	18.9	28.3		
µmol/l		97.8	78.2	117	Beckman AU Instruments	
µg/ml		24.7	19.7	29.7		
Phenytoin	µmol/l	102	81.6	122	Siemens Atellica CH	
	µg/ml	25.8	20.6	31.0		
	µmol/l	97.7	78.2	117	Abbott Alinity	
	µg/ml	24.7	19.7	29.7		
	µmol/l	99.8	79.8	120	Gravimetric	
	µg/ml	25.2	20.1	30.3		
	Primidone	µmol/l	32.7	26.2	39.2	Gravimetric
		µg/ml	7.14	5.72	8.56	
	Progesterone	nmol/l	90.9	72.7	109	Abbott Architect
		ng/ml	28.5	22.8	34.2	
		nmol/l	138	110	166	BioMerieux Vidas
		ng/ml	43.2	34.4	52.0	
	Progesterone	nmol/l	72.1	57.7	86.5	Siemens Centaur XP/XPT/Classic
		ng/ml	22.6	18.1	27.1	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Progesterone	nmol/l	75.9	60.7	91.1	Siemens Immulite 2000/2500
	ng/ml	23.8	19.0	28.6	
	nmol/l	85.3	68.2	102	Siemens Immulite 1000
	ng/ml	26.7	21.3	32.1	
	nmol/l	89.4	71.5	107	Beckman Dxl Prog Cal 33555
	ng/ml	28.0	22.4	33.6	
	nmol/l	94.7	75.8	114	Roche Elecsys (Prog. II)
	ng/ml	29.6	23.7	35.5	
	nmol/l	89.4	71.5	107	Beckman Access Prog Cal 33555
	ng/ml	28.0	22.4	33.6	
	nmol/l	106	84.8	127	Tosoh Series
	ng/ml	33.2	26.5	39.9	
	nmol/l	100	80.0	120	Vitros ECi
	ng/ml	31.3	25.0	37.6	
	nmol/l	99.0	79.2	119	Roche Cobas 4000/e411 (Prog. II)
	ng/ml	31.0	24.8	37.2	
	nmol/l	98.7	79.0	118	Roche Cobas e601/602 (Prog. II)
	ng/ml	30.9	24.7	37.1	
	nmol/l	85.1	68.1	102	Beckman Dxl Prog DE Cal A80773
	ng/ml	26.6	21.3	31.9	
	nmol/l	89.8	71.8	108	Beckman Access Prog DE Cal A80773
	ng/ml	28.1	22.5	33.7	
	nmol/l	70.1	56.1	84.1	Siemens Centaur CP
	ng/ml	21.9	17.6	26.2	
	nmol/l	98.3	78.6	118	Roche Cobas e601/602 (Prog. III)
	ng/ml	30.8	24.6	37.0	
	nmol/l	97.3	77.8	117	Roche Elecsys (Prog. III)
	ng/ml	30.5	24.4	36.6	
nmol/l	97.7	78.2	117	Roche Cobas 4000/e411 (Prog. III)	
ng/ml	30.6	24.5	36.7		
nmol/l	87.2	69.8	105	Diasorin Liaison XL	
ng/ml	27.3	21.8	32.8		
nmol/l	85.5	68.4	103	Abbott Alinity i	
ng/ml	26.8	21.4	32.2		
nmol/l	76.2	61.0	91.4	Siemens Atellica IM	
ng/ml	23.9	19.1	28.7		
nmol/l	98.1	78.5	118	Roche Cobas e801 (Prog. III)	
ng/ml	30.7	24.6	36.8		
nmol/l	101	80.8	121	Tosoh AIA-CL Series	
ng/ml	31.6	25.3	37.9		
Prolactin	µU/ml	1300	1040	1560	Abbott Architect
	µU/ml	1375	1100	1650	BioMerieux Vidas
	µU/ml	1026	821	1231	Siemens Centaur XP/XPT/Classic
	µU/ml	1159	927	1391	Siemens Immulite 2000/2500
	µU/ml	1282	1026	1538	Siemens Immulite 1000
	µU/ml	1079	863	1295	Beckman Dxl800

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Prolactin	µU/ml	1555	1244	1866	Roche Elecsys
	µU/ml	1129	903	1355	Beckman Access
	µU/ml	1235	988	1482	Tosoh Series
	µU/ml	1052	842	1262	Vitros ECi
	µU/ml	1558	1246	1870	Roche Elecsys/E170/Cobas 6000/8000 PRLII
	µU/ml	1394	1115	1673	Immunotech IRMA
	µU/ml	1603	1282	1924	Roche Cobas 4000/E411
	µU/ml	1556	1245	1867	Roche Cobas e601/602
	µU/ml	1042	834	1250	Siemens Centaur CP
	µU/ml	1337	1070	1604	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	µU/ml	1437	1150	1724	Diasorin Liaison XL
	µU/ml	1063	850	1276	Siemens Atellica IM
	µU/ml	1337	1070	1604	Abbott Alinity i
	µU/ml	1520	1216	1824	Roche Cobas e801 PRL II
PSA Free	ng/ml = µg/l	22.7	17.0	28.4	Abbott Architect
	ng/ml = µg/l	25.8	19.4	32.3	BioMerieux Vidas
	ng/ml = µg/l	18.2	13.7	22.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	16.6	12.5	20.8	Siemens Immulite 2000/2500
	ng/ml = µg/l	15.2	11.4	19.0	Siemens Immulite 1000
	ng/ml = µg/l	22.3	16.7	27.9	Beckman DXI standardised to Hybritech
	ng/ml = µg/l	17.4	13.1	21.8	Roche Elecsys
	ng/ml = µg/l	18.2	13.7	22.8	Diasorin Liaison
	ng/ml = µg/l	22.3	16.7	27.9	Beckman Access standardised to Hybritech
	ng/ml = µg/l	17.0	12.8	21.3	Tosoh Series
	ng/ml = µg/l	17.6	13.2	22.0	Roche Cobas 4000/E411
	ng/ml = µg/l	17.6	13.2	22.0	Roche Cobas e601/602
	ng/ml = µg/l	19.9	14.9	24.9	Beckman DxI800 standardised to WHO IRP96/670
	ng/ml = µg/l	16.2	12.2	20.3	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	14.9	11.2	18.6	Fujirebio Lumipulse G Series
	ng/ml = µg/l	16.6	12.5	20.8	Diasorin Liaison XL
	ng/ml = µg/l	19.0	14.3	23.8	Siemens Atellica IM
	ng/ml = µg/l	21.4	16.1	26.8	Abbott Alinity i
ng/ml = µg/l	16.7	12.5	20.9	Roche Cobas e402/e801	
PSA Total	ng/ml = µg/l	17.1	12.8	21.4	Abbott Architect
	ng/ml = µg/l	21.2	15.9	26.5	BioMerieux Vidas
	ng/ml = µg/l	20.9	15.7	26.1	bioMerieux VIDAS TPSA
	ng/ml = µg/l	22.2	16.7	27.8	Siemens Centaur XP/XPT/Classic
	ng/ml = µg/l	19.3	14.5	24.1	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	19.5	14.6	24.4	Siemens Immulite 1000 1st generation
	ng/ml = µg/l	23.9	17.9	29.9	Beckman DxI standardised to Hybritech
	ng/ml = µg/l	19.7	14.8	24.6	Beckman DxI800 standardised to WHO IRP96/670
	ng/ml = µg/l	23.3	17.5	29.1	Roche Elecsys
	ng/ml = µg/l	22.7	17.0	28.4	Diasorin Liaison
	ng/ml = µg/l	24.4	18.3	30.5	Beckman Access standardised to Hybritech
	ng/ml = µg/l	24.3	18.2	30.4	Beckman Access standardised to WHO IRP96/670
	ng/ml = µg/l	16.0	12.0	20.0	Tosoh Series

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
PSA Total	ng/ml = µg/l	22.6	17.0	28.3	Vitros ECI
	ng/ml = µg/l	17.4	13.1	21.8	Immunotech IRMA
	ng/ml = µg/l	23.3	17.5	29.1	Roche Cobas 4000/E411
	ng/ml = µg/l	23.3	17.5	29.1	Roche Cobas e601/602
	ng/ml = µg/l	42.8	32.1	53.5	Monobind Inc. ELISA / CLIA
	ng/ml = µg/l	16.3	12.2	20.4	Fujirebio Lumipulse G Series
	ng/ml = µg/l	22.9	17.2	28.6	Ortho Vitros 3600/5600/ECi PSA II
	ng/ml = µg/l	22.1	16.6	27.6	Siemens Centaur CP
	ng/ml = µg/l	22.8	17.1	28.5	Diasorin Liaison XL
	ng/ml = µg/l	23.6	17.7	29.5	Siemens Atellica IM
	ng/ml = µg/l	17.7	13.3	22.1	Abbott Alinity i
Salicylic Acid	ng/ml = µg/l	22.6	17.0	28.3	Roche Cobas e402/e801
	mmol/l	2.75	2.20	3.30	Roche Cobas c501/502/503
	mg/dl	38.0	30.4	45.6	
	mmol/l	2.86	2.29	3.43	EMIT
	mg/dl	39.5	31.6	47.4	
SHBG	mmol/l	2.88	2.30	3.46	Gravimetric
	mg/dl	39.8	31.8	47.8	
	nmol/l	39.8	31.8	47.8	Siemens Immulite 2000/2500
	nmol/l	40.2	32.2	48.2	Abbott Architect
	nmol/l	42.0	33.6	50.4	Beckman DxI800
	nmol/l	40.3	32.2	48.4	Siemens Atellica IM
	nmol/l	37.6	30.1	45.1	Roche analysers - 413417/15
T Uptake	nmol/l	36.0	28.8	43.2	Roche Cobas e801 - 413429
	nmol/l	39.4	31.5	47.3	Abbott Alinity i
%U	38.6	31.7	45.5	Siemens Immulite 2000	
Testosterone	nmol/l	27.7	22.2	33.2	Abbott Architect
	ng/ml	7.98	6.39	9.57	
	ng/dl	798	639	957	
	nmol/l	25.7	20.6	30.8	BioMerieux Vidas
	ng/ml	7.40	5.93	8.87	
	ng/dl	740	593	887	
	nmol/l	25.5	20.4	30.6	Siemens Centaur XP/XPT/Classic
	ng/ml	7.34	5.88	8.80	
	ng/dl	734	588	880	
	nmol/l	31.9	25.5	38.3	Siemens Immulite 2000/2500
	ng/ml	9.19	7.34	11.0	
	ng/dl	919	734	1104	
	nmol/l	46.2	37.0	55.4	Siemens Immulite 1000
	ng/ml	13.3	10.7	15.9	
	ng/dl	1331	1066	1596	
	nmol/l	23.8	19.0	28.6	Beckman DxI800
	ng/ml	6.85	5.47	8.23	
ng/dl	685	547	823		
nmol/l	25.6	20.5	30.7	Beckman Access	
ng/ml	7.37	5.90	8.84		
ng/dl	737	590	884		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Testosterone	nmol/l	37.8	30.2	45.4	Tosoh Series
	ng/ml	10.9	8.70	13.1	
	ng/dl	1089	870	1308	
	nmol/l	37.6	30.1	45.1	Vitros ECi
	ng/ml	10.8	8.67	12.9	
	ng/dl	1083	867	1299	
	nmol/l	27.9	22.3	33.5	Roche Cobas e601/602 Test II
	ng/ml	8.04	6.42	9.66	
	ng/dl	804	642	966	
	nmol/l	27.6	22.1	33.1	Roche Elecsys Test II
	ng/ml	7.95	6.36	9.54	
	ng/dl	795	636	954	
	nmol/l	27.7	22.2	33.2	Roche Cobas 4000/e411 Test II
	ng/ml	7.98	6.39	9.57	
	ng/dl	798	639	957	
	nmol/l	27.0	21.6	32.4	Abbott Architect 2nd Generation
	ng/ml	7.78	6.22	9.34	
	ng/dl	778	622	934	
	nmol/l	26.1	20.9	31.3	Siemens Centaur CP
	ng/ml	7.52	6.02	9.02	
	ng/dl	752	602	902	
	nmol/l	26.1	20.9	31.3	BioMerieux Vidas Testosterone II
	ng/ml	7.52	6.02	9.02	
	ng/dl	752	602	902	
	nmol/l	41.1	32.9	49.3	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	ng/ml	11.8	9.48	14.1	
	ng/dl	1184	948	1420	
nmol/l	25.3	20.2	30.4	Siemens Centaur TST II	
ng/ml	7.29	5.82	8.76		
ng/dl	729	582	876		
nmol/l	11.8	9.44	14.2	Diasorin Liaison XL	
ng/ml	3.40	2.72	4.08		
ng/dl	340	272	408		
nmol/l	26.3	21.0	31.6	Siemens Atellica IM	
ng/ml	7.57	6.05	9.09		
ng/dl	757	605	909		
nmol/l	27.6	22.1	33.1	Roche Cobas e801 Test II	
ng/ml	7.95	6.36	9.54		
ng/dl	795	636	954		
nmol/l	34.7	27.8	41.6	Tosoh AIA-CL Series	
ng/ml	9.99	8.01	12.0		
ng/dl	999	801	1197		
nmol/l	27.1	21.7	32.5	Abbott Alinity i	
ng/ml	7.80	6.25	9.35		
ng/dl	780	625	935		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Theophylline	µmol/l	164	131	197	Roche Integra
	µg/ml	29.6	23.6	35.6	
	µmol/l	149	119	179	Abbott Architect (CMIA)
	µg/ml	26.8	21.4	32.2	
	µmol/l	155	124	186	Roche Cobas 6000/8000
	µg/ml	27.9	22.3	33.5	
	µmol/l	149	119	179	Beckman AU400/600/640/2700/5400
	µg/ml	26.8	21.4	32.2	
Thyroglobulin	µmol/l	158	126	190	Abbott Alinity Enzyme-Immu
	µg/ml	28.5	22.7	34.3	
	µmol/l	166	133	199	Gravimetric
	µg/ml	29.9	24.0	35.9	
	ng/ml	27.8	20.9	34.8	Siemens Immulite 2000
	ng/ml	59.4	44.6	74.3	Roche Elecsys
	ng/ml	48.7	36.5	60.9	Beckman DxI800
	ng/ml	61.6	46.2	77.0	Roche Cobas 4000/E411
	ng/ml	60.0	45.0	75.0	Roche Cobas e601/602
	ng/ml	50.1	37.6	62.6	Beckman Access
	ng/ml	63.4	47.6	79.3	Abbott Architect 2000i
	ng/ml	56.4	42.3	70.5	Tosoh Series
	ng/ml	60.2	45.2	75.3	Roche Cobas e601/602 Tg II
	ng/ml	60.2	45.2	75.3	Roche Elecsys TGII
ng/ml	60.4	45.3	75.5	Roche Cobas 4000/E411 TGII	
ng/ml	52.4	39.3	65.5	Diasorin Liaison XL	
ng/ml	58.4	43.8	73.0	Roche Cobas e801 Tg II	
ng/ml	55.1	41.3	68.9	DiaSorin Liaison XL TG II Gen	
ng/ml	61.8	46.4	77.3	Abbott Alinity i	
Thyroid Stimulating Hormone	µU/ml = mIU/l	18.5	14.8	22.2	Abbott Architect
	µU/ml = mIU/l	20.6	16.5	24.7	bioMerieux VIDAS TSH
	µU/ml = mIU/l	18.9	15.1	22.7	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	23.8	19.0	28.6	Siemens Centaur XP/XPT/Classic
	µU/ml = mIU/l	23.7	19.0	28.4	Siemens Centaur XP/XPT/Classic 3rd Generation
	µU/ml = mIU/l	21.2	17.0	25.4	Siemens Immulite 2000/2500
	µU/ml = mIU/l	21.7	17.4	26.0	Siemens Immulite 1000
	µU/ml = mIU/l	21.3	17.0	25.6	Beckman DxI800
	µU/ml = mIU/l	22.1	17.7	26.5	Roche Elecsys
	µU/ml = mIU/l	33.3	26.6	40.0	Diasorin Liaison
	µU/ml = mIU/l	21.1	16.9	25.3	Beckman Access Fast TSH
	µU/ml = mIU/l	21.0	16.8	25.2	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	26.3	21.0	31.6	Tosoh Series
	µU/ml = mIU/l	28.3	22.6	34.0	Vitros ECi
	µU/ml = mIU/l	20.0	16.0	24.0	Immunotech IRMA
	µU/ml = mIU/l	22.4	17.9	26.9	Roche Cobas 4000/E411
	µU/ml = mIU/l	22.4	17.9	26.9	Roche Cobas e601/602
	µU/ml = mIU/l	20.1	16.1	24.1	Beckman DxI800 Hyper TSH
µU/ml = mIU/l	23.5	18.8	28.2	Siemens Centaur XP/XPT/Classic TSH3-Ultra	

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Thyroid Stimulating Hormone	µU/ml = mIU/l	22.3	17.8	26.8	Siemens Centaur CP
	µU/ml = mIU/l	22.2	17.8	26.6	Siemens Centaur CP TSH3-Ultra
	µU/ml = mIU/l	28.9	23.1	34.7	Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i
	µU/ml = mIU/l	20.9	16.7	25.1	Beckman Dxl 600/800 Access (3rd IS)
	µU/ml = mIU/l	34.1	27.3	40.9	Diasorin Liaison XL
	µU/ml = mIU/l	24.0	19.2	28.8	Siemens Atellica IM
	µU/ml = mIU/l	18.6	14.9	22.3	Abbott Alinity i
	µU/ml = mIU/l	21.1	16.9	25.3	Roche Cobas e402/e801
Tobramycin	µmol/l	10.3	8.24	12.4	Gravimetric
	µg/ml	4.82	3.86	5.80	
Total Beta hCG	mU/ml=IU/l	236	189	283	Abbott Architect
	IU/ml	0.236	0.189	0.283	
	mU/ml=IU/l	424	339	509	BioMerieux Vidas
	IU/ml	0.424	0.339	0.509	
	mU/ml=IU/l	207	166	248	Siemens Centaur XP/XPT/Classic
	IU/ml	0.207	0.166	0.248	
	mU/ml=IU/l	400	320	480	Siemens Dimension
	IU/ml	0.400	0.320	0.480	
	mU/ml=IU/l	442	354	530	Siemens Immulite 2000
	IU/ml	0.442	0.354	0.530	
	mU/ml=IU/l	465	372	558	Siemens Immulite 1000
	IU/ml	0.465	0.372	0.558	
	mU/ml=IU/l	249	199	299	Beckman Dxl800
	IU/ml	0.249	0.199	0.299	
	mU/ml=IU/l	275	220	330	Roche Cobas Core EIA
	IU/ml	0.275	0.220	0.330	
	mU/ml=IU/l	242	194	290	Beckman Access
	IU/ml	0.242	0.194	0.290	
	mU/ml=IU/l	404	323	485	Tosoh Series
	IU/ml	0.404	0.323	0.485	
	mU/ml=IU/l	414	331	497	Vitros ECi
	IU/ml	0.414	0.331	0.497	
	mU/ml=IU/l	226	181	271	Roche hCG STAT (Intact)
	IU/ml	0.226	0.181	0.271	
	mU/ml=IU/l	272	218	326	Roche hCG+Beta
	IU/ml	0.272	0.218	0.326	
	mU/ml=IU/l	244	195	293	Beckman Access Total BhCG (5th IS)
	IU/ml	0.244	0.195	0.293	
mU/ml=IU/l	251	201	301	Beckman Dxl Total BhCG (5th IS)	
IU/ml	0.251	0.201	0.301		
mU/ml=IU/l	199	159	239	Siemens Centaur CP	
IU/ml	0.199	0.159	0.239		
mU/ml=IU/l	155	124	186	Mindray CL Series	
IU/ml	0.155	0.124	0.186		
mU/ml=IU/l	247	198	296	Diasorin Liaison XL	
IU/ml	0.247	0.198	0.296		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total Beta hCG	mU/ml=IU/l	219	175	263	Siemens Atellica IM
	IU/ml	0.219	0.175	0.263	
	mU/ml=IU/l	235	188	282	Abbott Alinity i
	IU/ml	0.235	0.188	0.282	
	mU/ml=IU/l	268	214	322	Roche hCG+Beta e801
	IU/ml	0.268	0.214	0.322	
mU/ml=IU/l	499	399	599	Tosoh AIA-CL Series	
IU/ml	0.499	0.399	0.599		
Total T3	nmol/l	5.17	3.88	6.46	Abbott Architect
	ng/ml	3.37	2.53	4.21	
	ng/dl	337	253	421	
	nmol/l	5.58	4.19	6.98	BioMerieux Vidas
	ng/ml	3.63	2.73	4.53	
	ng/dl	363	273	453	
	nmol/l	6.42	4.82	8.03	Siemens Centaur XP/XPT/Classic
	ng/ml	4.18	3.14	5.22	
	ng/dl	418	314	522	
	nmol/l	5.83	4.37	7.29	Siemens Immulite 2000/2500
	ng/ml	3.80	2.84	4.76	
	ng/dl	380	284	476	
	nmol/l	5.64	4.23	7.05	Siemens Immulite 1000
	ng/ml	3.67	2.75	4.59	
	ng/dl	367	275	459	
	nmol/l	5.63	4.22	7.04	Beckman Dxl800
	ng/ml	3.67	2.75	4.59	
	ng/dl	367	275	459	
	nmol/l	6.17	4.63	7.71	Roche Elecsys
	ng/ml	4.02	3.01	5.03	
	ng/dl	402	301	503	
	nmol/l	5.67	4.25	7.09	Beckman Access
	ng/ml	3.69	2.77	4.61	
	ng/dl	369	277	461	
nmol/l	5.24	3.93	6.55	Tosoh Series	
ng/ml	3.41	2.56	4.26		
ng/dl	341	256	426		
nmol/l	6.88	5.16	8.60	Vitros ECi	
ng/ml	4.48	3.36	5.60		
ng/dl	448	336	560		
nmol/l	6.09	4.57	7.61	Roche Cobas 4000/E411	
ng/ml	3.96	2.98	4.94		
ng/dl	396	298	494		
nmol/l	4.76	3.57	5.95	Immunotech RIA	
ng/ml	3.10	2.32	3.88		
ng/dl	310	232	388		
nmol/l	5.93	4.45	7.41	Roche Cobas e601/602	
ng/ml	3.86	2.90	4.82		
ng/dl	386	290	482		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total T3	nmol/l	6.99	5.24	8.74	Siemens Centaur CP
	ng/ml	4.55	3.41	5.69	
	ng/dl	455	341	569	
	nmol/l	5.08	3.81	6.35	Mindray CL Series
	ng/ml	3.31	2.48	4.14	
	ng/dl	331	248	414	
	nmol/l	4.74	3.56	5.93	Diasorin Liaison XL
	ng/ml	3.09	2.32	3.86	
	ng/dl	309	232	386	
	nmol/l	5.12	3.84	6.40	Abbott Alinity i
	ng/ml	3.33	2.50	4.16	
	ng/dl	333	250	416	
	nmol/l	6.78	5.09	8.48	Siemens Atellica IM
	ng/ml	4.41	3.31	5.51	
	ng/dl	441	331	551	
nmol/l	6.27	4.70	7.84	Roche Cobas e402/e801	
ng/ml	4.08	3.06	5.10		
ng/dl	408	306	510		
nmol/l	5.55	4.16	6.94	Tosoh AIA-CL Series	
ng/ml	3.61	2.71	4.51		
ng/dl	361	271	451		
Total T4	nmol/l	206	155	258	Abbott Architect
	µg/dl	16.1	12.1	20.1	
	ng/ml	161	121	201	
	nmol/l	221	166	276	BioMerieux Vidas
	µg/dl	17.2	12.9	21.5	
	ng/ml	172	129	215	
	nmol/l	226	170	283	Siemens Centaur XP/XPT/Classic
	µg/dl	17.6	13.3	21.9	
	ng/ml	176	133	219	
	nmol/l	201	151	251	Siemens Immulite 2000/2500
	µg/dl	15.7	11.8	19.6	
	ng/ml	157	118	196	
	nmol/l	224	168	280	Beckman Dxl800
	µg/dl	17.5	13.1	21.9	
	ng/ml	175	131	219	
	nmol/l	186	140	233	Roche Elecsys
	µg/dl	14.5	10.9	18.1	
	ng/ml	145	109	181	
nmol/l	219	164	274	Beckman Access	
µg/dl	17.1	12.8	21.4		
ng/ml	171	128	214		
nmol/l	195	146	244	Tosoh Series	
µg/dl	15.2	11.4	19.0		
ng/ml	152	114	190		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Total T4	nmol/l	218	164	273	Vitros ECI
	µg/dl	17.0	12.8	21.2	
	ng/ml	170	128	212	
	nmol/l	194	146	243	Roche Cobas 4000/E411
	µg/dl	15.1	11.4	18.8	
	ng/ml	151	114	188	
	nmol/l	185	139	231	Roche Cobas e601/602
	µg/dl	14.4	10.8	18.0	
	ng/ml	144	108	180	
	nmol/l	161	121	201	Immunotech IRMA
	µg/dl	12.6	9.44	15.8	
	ng/ml	126	94.4	158	
	nmol/l	236	177	295	Siemens Centaur CP
	µg/dl	18.4	13.8	23.0	
	ng/ml	184	138	230	
	nmol/l	230	173	288	Mindray CL Series
	µg/dl	17.9	13.5	22.3	
	ng/ml	179	135	223	
nmol/l	200	150	250	Diasorin Liaison XL	
µg/dl	15.6	11.7	19.5		
ng/ml	156	117	195		
nmol/l	203	152	254	Abbott Alinity i	
µg/dl	15.8	11.9	19.7		
ng/ml	158	119	197		
nmol/l	233	175	291	Siemens Atellica IM	
µg/dl	18.2	13.7	22.7		
ng/ml	182	137	227		
nmol/l	181	136	226	Roche Cobas e402/e801	
µg/dl	14.1	10.6	17.6		
ng/ml	141	106	176		
nmol/l	224	168	280	Tosoh AIA-CL Series	
µg/dl	17.5	13.1	21.9		
ng/ml	175	131	219		
Valproic Acid	µmol/l	916	733	1099	Abbott Architect (CMIA)
	µg/ml	132	106	158	
	µmol/l	996	797	1195	Siemens Centaur XP/XPT/Classic
	µg/ml	144	115	173	
	µmol/l	892	714	1070	Siemens Dimension
	µg/ml	129	103	155	
	µmol/l	977	782	1172	Siemens Immulite 2000/2500
	µg/ml	141	113	169	
	µmol/l	915	732	1098	Roche Integra
	µg/ml	132	106	158	
µmol/l	912	730	1094	Roche Cobas 6000/8000	
µg/ml	132	105	159		
µmol/l	958	766	1150	Beckman AU400/600/640/2700/5400	
µg/ml	138	111	165		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Analyte	unit	Target	Range		methods
			low	high	
Valproic Acid	µmol/l	883	706	1060	Abbott Architect (PETINA)
	µg/ml	127	102	152	
	µmol/l	990	792	1188	EMIT
	µg/ml	143	114	172	
	µmol/l	906	725	1087	Siemens Atellica CH
	µg/ml	131	105	157	
	µmol/l	939	751	1127	Abbott Alinity (CMIA)
	µg/ml	135	108	162	
Vancomycin	µmol/l	925	740	1110	Abbott Alinity (PETINA)
	µg/ml	133	107	159	
	µmol/l	1116	893	1339	Gravimetric
	µg/ml	161	129	193	
	µmol/l	10.6	8.48	12.7	Roche Integra
	µg/ml	15.7	12.6	18.8	
	µmol/l	9.29	7.43	11.1	Ortho Vitros Microslide Systems
	µg/ml	13.8	11.0	16.6	
	µmol/l	12.1	9.68	14.5	Abbott Architect (CMIA)
	µg/ml	18.0	14.4	21.6	
	µmol/l	9.18	7.34	11.0	Siemens Centaur XP/XPT/Classic
	µg/ml	13.6	10.9	16.3	
	µmol/l	11.5	9.20	13.8	Siemens Dimension
	µg/ml	17.1	13.7	20.5	
	µmol/l	11.0	8.80	13.2	Roche Cobas 6000/8000
	µg/ml	16.3	13.1	19.5	
µmol/l	11.3	9.04	13.6	Abbott Architect (PETINA)	
µg/ml	16.8	13.4	20.2		
µmol/l	10.6	8.48	12.7	Siemens Atellica CH	
µg/ml	15.7	12.6	18.8		
µmol/l	11.5	9.20	13.8	Abbott Alinity (CMIA)	
µg/ml	17.1	13.7	20.5		
µmol/l	10.9	8.72	13.1	Abbott Alinity (PETINA)	
µg/ml	16.2	13.0	19.4		
µmol/l	10.8	8.64	13.0	Gravimetric	
µg/ml	16.0	12.8	19.3		
Vitamin B12	pmol/l	563	450	676	Abbott Architect
	pg/ml	763	610	916	
	pmol/l	617	494	740	Siemens Centaur XP/XPT/Classic
	pg/ml	836	669	1003	
	pmol/l	633	506	760	Siemens Immulite 2000
	pg/ml	858	686	1030	
	pmol/l	500	400	600	Beckman DxI800
	pg/ml	678	542	814	
pmol/l	597	478	716	Roche Elecsys	
pg/ml	809	648	970		
pmol/l	516	413	619	Beckman Access	
pg/ml	699	560	838		

IMMUNOASSAY PREMIUM - LEVEL 3 (IA PREMIUM 3)

Cat. No. IA2640 / IA2633 Lot. No. 2187EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

Range					
Analyte	unit	Target	low	high	methods
Vitamin B12	pmol/l	774	619	929	Tosoh Series
	pg/ml	1049	839	1259	
	pmol/l	593	474	712	Vitros ECI
	pg/ml	804	642	966	
	pmol/l	566	453	679	Siemens Dimension
	pg/ml	767	614	920	
	pmol/l	681	545	817	Siemens Centaur CP
	pg/ml	923	738	1108	
	pmol/l	614	491	737	Roche Cobas 4000/e411 Gen II
	pg/ml	832	665	999	
	pmol/l	638	510	766	Roche Cobas e601/602 Gen II
	pg/ml	864	691	1037	
	pmol/l	826	661	991	Mindray CL Series
	pg/ml	1119	896	1342	
	pmol/l	648	518	778	Siemens Atellica IM
	pg/ml	878	702	1054	
	pmol/l	555	444	666	Abbott Alinity i
	pg/ml	752	602	902	
pmol/l	622	498	746	Roche Cobas e801 Gen II	
pg/ml	843	675	1011		