

**IMMUNOASSAY KONTROLLE****Art.- Nr.:****Level III      KG 2640    12 x 5 ml****Tri Level      KG 2633    12 x 5 ml****Level III      Ch.-B.:    860 EC****Verwendbar bis: 11/2012**

**BGT** Immunoassay Kontrollen sind lyophilisierte Kontrollseren humanen Ursprungs mit einer Vielzahl an Parametern in 3 Wertebereichen, die den klinischen Bereich abdecken.

**VORBEREITUNG**

Jede Flasche des lyophilisierten Serums vorsichtig mit genau **5 ml** destilliertem Wasser bei einer

Temperatur von +20° bis +25°C auflösen. Flasche mit Gummistopfen wieder verschließen und 30 Minuten stehen lassen. Durch leichtes Schwenken der Flasche überprüfen, ob der Inhalt komplett gelöst ist. Schaumbildung vermeiden. Flasche nicht schütteln.

**STABILITÄT**

Das lyophilisierte Serum ist unter ständiger Aufbewahrung bei +2 bis +8°C bis zum angegebenen Verfallsdatum haltbar. Nach Aufbereitung ist das Kontrollserum ohne bakterielle Kontamination 7 Tage bei +2°C bis +8°C oder 4 Wochen bei -20°C gefroren (nur einmal einfrieren!) stabil. Es sollte nur die benötigte Menge des Materials entnommen werden. Nach Gebrauch sollten etwaige Reste **NICHT IN DIE FLASCHE ZURÜCKGEGEBEN** werden. **Bitte beachten Sie, dass die Stabilität der Parameter CA 19-9 und CA 15-3 auf 1 Tag bei 2 – 8 C geändert wurde.**

**ANMERKUNGEN**

Bakterielle Kontamination des aufbereiteten Kontrollmaterials verringert die Stabilität vieler Komponenten. **Parathyroid hormone (PTH) und Thyroglobulin sollten innerhalb von 4 Stunden nach Rekonstitution**, bei +2° bis +8°C getestet werden.

**SICHERHEITSHINWEISE**

Das für dieses Produkt verwendete Material ist humanen Ursprungs und wurde auf Spenderebene auf Antikörper gegen Humanes Immunschwächevirus (HIV 1, HIV 2), Hepatitis B-Oberflächenantigen (HbsAg) und Hepatitis C-Virus (HCV) getestet und **NEGATIV** befundet. Jedoch ist keine Methode bekannt, die mit absoluter Sicherheit die Anwesenheit infektiösen Materials ausschließt, so daß dieses Material und alle Patientenproben als potenziell infektiöses Material zu behandeln sind, um jegliches Infektionsrisiko zu vermeiden.

Nur zur **in vitro**-Diagnostik

**INTENDED USE**

This product is intended for in vitro diagnostic use in the quality control of the accuracy of Immunoassays on clinical chemistry systems. This material can be used to monitor the control of accuracy or the control of reproducibility of immunoassays.

**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 to 8°C). Reconstituted serum is stable for 7 days at 2 to 8°C if kept capped in original container and free from contamination or 4 weeks frozen once at -20°C. Parathyroid hormone (PTH) and Thyroglobulin should be tested within 4 hours of reconstitution, when stored at 2 to 8°C or within 2 weeks when stored below -20°C. 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 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**

The Immunoassay Control is supplied lyophilised.

1. Carefully reconstitute each vial of lyophilised serum with exactly 5ml of distilled water at +20 to 25°C. Close 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 Control Tri Level: 12 x 5ml Level 1: 10 x 5ml

**MATERIAL REQUIRED BUT NOT PROVIDED**

Volumetric Pipette

**VALUE ASSIGNMENT**

Each batch of Immunoassay Control is submitted to a number of reference laboratories and values are assigned from a consensus of results obtained by these laboratories using a unique statistical analysis. With each batch a control range is provided for individual parameters and each parameter method. The control range is equivalent to the assigned mean  $\pm 2$  S.D. This results in extremely accurate values, which may be confidently used by laboratories to ensure the accuracy of their methods.

## IMMUNOASSAY PREMIUM LEVEL 3 (IA PREMIUM 3)

Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
1-25 OH Vitamin D	pmol/l	163	130	196	IDS RIA
17-OH-Progesterone	nmol/l	58.9	42.3	75.5	Siemens Coat-a-Count
	ng/ml	19.5	14.0	25.0	
	nmol/l	45.0	33.8	56.3	DSL
	ng/ml	14.9	11.2	18.6	
	ng/ml	35.1	26.4	43.8	
25-OH Vitamin D	nmol/l	145	109	181	Roche Elecsys
	nmol/l	131	98.3	164	Roche Cobas E411
	nmol/l	176	132	220	Roche Modular E170
	nmol/l	91.4	68.6	114	IDS RIA
	nmol/l	92.6	69.5	116	IDS ELISA
ACTH	pmol/l	14.3	10.7	17.9	Siemens Immulite 2000/2500
	pg/ml	65.0	48.6	81.4	
Aldosterone	pmol/l	774	581	968	CIS RIA
	pg/ml	279	210	348	Diasorin
	pmol/l	696	522	870	
	pg/ml	251	188	314	
Alphafoetoprotein	KIU/l = IU/ml	178	143	213	Abbott AXSYM
	ng/ml	215	173	257	bioMerieux Vidas
	KIU/l = IU/ml	150	126	174	
	ng/ml	182	152	212	
	KIU/l = IU/ml	171	139	203	Siemens Immulite 1000
	ng/ml	207	168	246	Roche Elecsys
	KIU/l = IU/ml	176	150	202	
	ng/ml	213	182	244	
	KIU/l = IU/ml	179	152	206	Beckman Access
	ng/ml	217	184	250	Vitros ECi
	KIU/l = IU/ml	160	128	192	
	ng/ml	194	155	233	
	KIU/l = IU/ml	188	160	216	Siemens Advia Centaur
	ng/ml	227	194	260	Siemens Immulite 2000/2500
	KIU/l = IU/ml	173	144	202	
	ng/ml	209	174	244	
	KIU/l = IU/ml	185	140	230	Abbott Architect
	ng/ml	224	169	279	Diasorin RIA
	KIU/l = IU/ml	186	158	214	
	ng/ml	225	191	259	
KIU/l = IU/ml	187	159	215	Roche Modular E170	
ng/ml	226	192	260	Beckman Dxl800	
KIU/l = IU/ml	177	146	208		
ng/ml	214	177	251		
KIU/l = IU/ml	184	156	212	Roche Cobas 6000	
ng/ml	223	189	257		

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Parameter	Einheit	Zielwert	von	bis	Methoden
Alphafoetoprotein	KIU/l = IU/ml	175	139	211	Roche Cobas E411
	ng/ml	212	168	256	
	KIU/l = IU/ml	161	149	173	Pishtaz Teb- ELISA
	ng/ml	195	180	210	
Amikacin	µmol/l	24.8	21.1	28.5	Abbott TDx
	µg/ml	14.5	12.4	16.6	
Beta-2-microglobulin	µg/ml = mg/l	7.64	5.73	9.55	Siemens Immulite 1000
	µg/ml = mg/l	8.29	7.05	9.53	bioMerieux Vidas
	µg/ml = mg/l	6.91	4.99	8.83	Roche Tinaquant
	µg/ml = mg/l	6.07	4.95	7.19	Abbott AXSYM
	µg/ml = mg/l	6.74	5.58	7.90	Siemens Immulite 2000/2500
	µg/ml = mg/l	7.96	6.77	9.15	Abbott Architect
C-Peptide	nmol/l	2.050	1.740	2.360	Siemens Immulite 2000/2500
	ng/ml	6.19	5.25	7.13	
	nmol/l	2.310	1.810	2.810	Roche Elecsys
	ng/ml	6.97	5.46	8.48	
Carbamazepine	nmol/l	2.230	1.900	2.560	Siemens Immulite 1000
	ng/ml	6.73	5.74	7.72	
	µmol/l	63.7	53.5	73.9	Vitros
	µg/ml	15.1	12.6	17.6	
	µmol/l	68.4	58.1	78.7	Abbott AXSYM
	µg/ml	16.2	13.7	18.7	
	µmol/l	63.9	51.7	76.1	Siemens Advia Centaur
	µg/ml	15.1	12.2	18.0	
	µmol/l	61.2	52.0	70.4	Siemens Immulite 1000
	µg/ml	14.5	12.3	16.7	
	µmol/l	78.9	67.1	90.7	Roche Integra
	µg/ml	18.7	15.9	21.5	
Cortisol	µmol/l	71.4	57.3	85.5	Siemens Dimension
	µg/ml	16.9	13.5	20.3	
	µmol/l	69.9	59.4	80.4	Roche Modular E170
	µg/ml	16.5	14.0	19.0	
	µmol/l	66.8	56.8	76.8	Roche Cobas 6000
	µg/ml	15.8	13.4	18.2	
	nmol/l	1023	818	1228	Abbott AXSYM
	µg/dl	36.8	29.4	44.2	
	nmol/l	916	779	1053	bioMerieux Vidas
	µg/dl	33.0	28.0	38.0	
	nmol/l	1072	911	1233	Siemens Immulite 1000
	µg/dl	38.6	32.8	44.4	
nmol/l	980	833	1127	Roche Elecsys	
µg/dl	35.3	30.0	40.6		
nmol/l	998	745	1251	Beckman Access	
µg/dl	35.9	26.8	45.0		
nmol/l	1039	853	1225	Siemens Advia Centaur	
µg/dl	37.4	30.7	44.1		

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Parameter	Einheit	Zielwert	von	bis	Methoden
Cortisol	nmol/l	1020	867	1173	Siemens Immulite 2000/2500
	µg/dl	36.7	31.2	42.2	
	nmol/l	910	757	1063	Abbott Architect
	µg/dl	32.8	27.3	38.3	
	nmol/l	957	813	1101	Roche Modular E170
	µg/dl	34.5	29.3	39.7	
	nmol/l	992	843	1141	Beckman Dxl800
	µg/dl	35.7	30.3	41.1	
DHEA-S	nmol/l	958	814	1102	Roche Cobas 6000
	µg/dl	34.5	29.3	39.7	
	nmol/l	990	842	1138	Roche Cobas E411
	µg/dl	35.6	30.3	40.9	
	µmol/l	24.0	19.8	28.2	Siemens Immulite 1000
	µmol/l	24.8	21.1	28.5	Siemens Immulite 2000/2500
	µmol/l	36.2	27.2	45.2	Roche Elecsys
	µmol/l	31.0	21.9	40.1	Roche Modular E170
Digoxin	µmol/l	33.0	28.1	37.9	Abbott Architect
	µmol/l	24.5	20.8	28.2	Siemens Advia Centaur
	µmol/l	33.4	25.1	41.7	Roche Cobas 6000
	nmol/l	4.49	3.82	5.16	Abbott AXSYM
	ng/ml	3.51	2.98	4.04	
	nmol/l	4.92	4.18	5.66	Vitros
	ng/ml	3.84	3.26	4.42	
	nmol/l	6.08	5.17	6.99	Siemens Immulite 1000
	ng/ml	4.75	4.04	5.46	
	nmol/l	4.96	4.22	5.70	bioMerieux Vidas
	ng/ml	3.87	3.30	4.44	
	nmol/l	5.61	4.02	7.20	Roche Elecsys
	ng/ml	4.38	3.14	5.62	
	nmol/l	5.16	4.39	5.93	Siemens Advia Centaur
	ng/ml	4.03	3.43	4.63	
	nmol/l	5.39	4.49	6.29	Roche Modular E170
	ng/ml	4.21	3.51	4.91	
	nmol/l	4.44	3.72	5.16	Abbott Architect
ng/ml	3.47	2.91	4.03		
Ethosuximide	nmol/l	5.21	4.43	5.99	Siemens Dimension
	ng/ml	4.07	3.46	4.68	
Ferritin	nmol/l	4.88	4.15	5.61	Roche Cobas 6000
	ng/ml	3.81	3.24	4.38	
	µmol/l	494	395	593	Gravimetric
	µg/ml	70.0	56.0	84.1	
Ferritin	ng/ml = µg/l	319	258	380	Abbott AXSYM
	ng/ml = µg/l	290	218	362	bioMerieux Vidas
	ng/ml = µg/l	273	232	314	Siemens Immulite 1000
	ng/ml = µg/l	309	263	355	Roche Elecsys

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Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Ferritin	ng/ml = µg/l	233	198	268	Beckman Access
	ng/ml = µg/l	219	186	252	Vitros ECI
	ng/ml = µg/l	286	243	329	Siemens Advia Centaur
	ng/ml = µg/l	279	237	321	Siemens Immulite 2000/2500
	ng/ml = µg/l	345	293	397	Abbott Architect
	ng/ml = µg/l	338	273	403	Diasorin Liaison
	ng/ml = µg/l	307	261	353	Roche Modular E170
	ng/ml = µg/l	291	247	335	Siemens Dimension
	ng/ml = µg/l	222	189	255	Beckman DxI800
	ng/ml = µg/l	314	267	361	Roche Cobas E411
	ng/ml = µg/l	306	260	352	Roche Cobas 6000
	ng/ml = µg/l	278	248	308	Pishtaz Teb- ELISA
Folate	nmol/l	40.4	34.2	46.6	Abbott AXSYM
	ng/ml	17.8	15.1	20.5	
	nmol/l	35.6	30.3	40.9	Beckman Access
	ng/ml	15.7	13.4	18.0	
	nmol/l	33.0	26.5	39.5	Siemens Immulite 1000
	ng/ml	14.6	11.7	17.5	
	nmol/l	48.9	37.2	60.6	Roche Elecsys
	ng/ml	21.6	16.4	26.8	
	nmol/l	35.2	29.9	40.5	Siemens Immulite 2000
	ng/ml	15.5	13.2	17.8	
	nmol/l	23.6	20.1	27.1	Vitros ECI
	ng/ml	10.4	8.86	11.9	
	nmol/l	41.9	35.6	48.2	Abbott Architect
	ng/ml	18.5	15.7	21.3	
	nmol/l	48.7	40.6	56.8	Roche Modular E170
	ng/ml	21.5	17.9	25.1	
	nmol/l	66.1	49.6	82.6	Bayer ADVIA Centaur (enhanced kit)
	ng/ml	29.2	21.9	36.5	
nmol/l	37.1	31.5	42.7	Beckman DxI800	
ng/ml	16.4	13.9	18.9		
nmol/l	49.7	39.5	59.9	Roche Cobas 6000	
ng/ml	21.9	17.4	26.4		
nmol/l	44.8	38.1	51.5	Abbott Architect restandardised	
ng/ml	19.8	16.8	22.8		
Free T3	pmol/l	25.8	21.1	30.5	Abbott AXSYM
	ng/dl	1.68	1.37	1.99	
	pg/ml	16.8	13.7	19.9	
	pmol/l	23.6	20.1	27.1	bioMerieux Vidas
	ng/dl	1.53	1.31	1.75	
	pg/ml	15.4	13.1	17.7	
	pmol/l	27.1	23.0	31.2	Roche Elecsys
	ng/dl	1.76	1.50	2.02	
	pg/ml	17.6	15.0	20.2	
	pmol/l	21.0	17.9	24.1	Beckman Access
ng/dl	1.37	1.16	1.58		
pg/ml	13.7	11.7	15.7		

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Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Free T3	pmol/l	16.6	13.8	19.4	Siemens Immulite 1000
	ng/dl	1.08	0.897	1.26	
	pg/ml	10.8	8.98	12.6	
	pmol/l	35.0	29.8	40.2	Vitros ECi
	ng/dl	2.28	1.94	2.62	
	pg/ml	22.8	19.4	26.2	
	pmol/l	20.8	17.7	23.9	Siemens Advia Centaur
	ng/dl	1.35	1.15	1.55	
	pg/ml	13.5	11.5	15.5	
	pmol/l	16.9	14.4	19.4	Siemens Immulite 2000/2500
	ng/dl	1.10	0.936	1.26	
	pg/ml	11.0	9.37	12.6	
	pmol/l	24.7	21.0	28.4	Abbott Architect
	ng/dl	1.61	1.37	1.85	
	pg/ml	16.1	13.7	18.5	
	pmol/l	30.1	25.6	34.6	Diasorin Liaison
	ng/dl	1.96	1.66	2.26	
	pg/ml	19.6	16.7	22.5	
	pmol/l	27.0	23.0	31.0	Roche Modular E170
	ng/dl	1.76	1.50	2.02	
	pg/ml	17.6	15.0	20.2	
	pmol/l	19.3	15.5	23.1	Beckman DxI800
	ng/dl	1.25	1.01	1.49	
	pg/ml	12.6	10.1	15.1	
pmol/l	26.9	22.9	30.9	Roche Cobas E411	
ng/dl	1.75	1.49	2.01		
pg/ml	17.5	14.9	20.1		
pmol/l	27.3	23.2	31.4	Roche Cobas 6000	
ng/dl	1.77	1.51	2.03		
pg/ml	17.8	15.1	20.5		
pmol/l	13.1	11.3	14.9	Pishtaz Teb- ELISA	
ng/dl	0.860	0.740	0.980		
pg/ml	8.60	7.40	9.80		
Free T4	pmol/l	37.8	32.1	43.5	Abbott AXSYM
	ng/dl	2.95	2.50	3.40	
	pg/ml	29.5	25.0	34.0	
	pmol/l	46.3	39.4	53.2	bioMerieux Vidas
	ng/dl	3.61	3.07	4.15	
	pg/ml	36.1	30.7	41.5	
	pmol/l	63.2	51.8	74.6	Siemens Immulite 1000
	ng/dl	4.93	4.04	5.82	
	pg/ml	49.3	40.4	58.2	
	pmol/l	61.9	52.6	71.2	Roche Elecsys
	ng/dl	4.83	4.10	5.56	
	pg/ml	48.3	41.0	55.6	

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Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Free T4	pmol/l	48.4	41.1	55.7	Beckman Access
	ng/dl	3.78	3.21	4.35	
	pg/ml	37.8	32.1	43.5	
	pmol/l	67.7	57.5	77.9	Tosoh
	ng/dl	5.28	4.49	6.07	
	pg/ml	52.8	44.9	60.7	
	pmol/l	90.2	76.7	104	Vitros ECI
	ng/dl	7.04	5.98	8.10	
	pg/ml	70.4	59.8	81.0	
	pmol/l	45.7	38.8	52.6	Siemens Advia Centaur
	ng/dl	3.56	3.03	4.09	
	pg/ml	35.6	30.3	40.9	
	pmol/l	63.7	52.6	74.8	Siemens Immulite 2000/2500
	ng/dl	4.97	4.10	5.84	
	pg/ml	49.7	41.0	58.4	
	pmol/l	59.2	50.1	68.3	Abbott Architect
	ng/dl	4.62	3.91	5.33	
	pg/ml	46.2	39.1	53.3	
	pmol/l	90.1	76.6	104	Diasorin Liaison
	ng/dl	7.03	5.97	8.09	
	pg/ml	70.3	59.7	80.9	
	pmol/l	62.2	52.9	71.5	Roche Modular E170
	ng/dl	4.85	4.13	5.57	
	pg/ml	48.5	41.3	55.7	
pmol/l	51.7	43.9	59.5	Beckman DxI800	
ng/dl	4.03	3.42	4.64		
pg/ml	40.3	34.2	46.4		
pmol/l	62.7	53.3	72.1	Roche Cobas 6000	
ng/dl	4.89	4.16	5.62		
pg/ml	48.9	41.6	56.2		
pmol/l	63.4	53.9	72.9	Roche Cobas E411	
ng/dl	4.95	4.20	5.70		
pg/ml	49.5	42.0	57.0		
pmol/l	75.3	58.7	91.8	Pishtaz Teb- ELISA	
ng/dl	5.90	4.60	7.20		
pg/ml	59.0	46.0	72.0		
Free Testosterone	pmol/l	57.9	43.4	72.4	Siemens Coat-a-Count
	pg/ml	16.6	12.5	20.7	
FSH	mU/ml	63.7	54.1	73.3	Siemens Immulite 1000
	mU/ml	78.9	67.1	90.7	bioMerieux Vidas
	mU/ml	59.5	50.6	68.4	Abbott AXSYM
	mU/ml	71.8	61.0	82.6	Beckman Access
	mU/ml	61.8	52.5	71.1	Roche/BM Elecsys
	mU/ml	55.1	46.8	63.4	Vitros ECI
	mU/ml	70.6	60.0	81.2	Siemens Advia Centaur

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Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
FSH	mU/ml	64.1	54.5	73.7	Siemens Immulite 2000/2500
	mU/ml	52.3	44.5	60.1	Abbott Architect
	mU/ml	79.3	64.6	94.0	Diasorin Liaison
	mU/ml	57.8	49.1	66.5	Roche Modular E170
	mU/ml	74.5	63.3	85.7	Beckman Dxl800
	mU/ml	62.5	53.1	71.9	Roche Cobas E411
	mU/ml	59.0	50.2	67.8	Roche Cobas 6000
	mU/ml	95.0	86.0	104	Pishtaz Teb- ELISA
Gentamicin	µmol/l	11.6	9.86	13.3	Abbott AXSYM
	µg/ml	5.54	4.71	6.37	
Growth Hormone (GH)	µU/ml	88.5	69.4	108	Siemens Immulite 1000
	µU/ml	66.6	52.3	80.9	Siemens Immulite 2000/2500
Human Chorionic Gonadotrophin (hCG)	mU/ml=U/l	413	351	475	Abbott AXSYM
	mU/ml=U/l	475	404	546	bioMerieux Vidas
	mU/ml=U/l	555	469	641	Siemens Immulite 1000
	mU/ml=U/l	368	313	423	Roche Elecsys HCG + Beta
	mU/ml=U/l	287	244	330	Beckman Access
	mU/ml=U/l	503	428	578	Vitros ECi
	mU/ml=U/l	274	233	315	Siemens Advia Centaur
	mU/ml=U/l	601	511	691	Siemens Immulite 2000
	mU/ml=U/l	315	268	362	Abbott Architect
	mU/ml=U/l	292	248	336	Diasorin Liaison
	mU/ml=U/l	363	309	417	Roche Modular E170
	mU/ml=U/l	483	411	555	Siemens Dimension
	mU/ml=U/l	280	238	322	Beckman Dxl800
	mU/ml=U/l	393	334	452	Roche Elecsys HCG STAT Intact
mU/ml=U/l	377	320	434	Roche Cobas E411	
mU/ml=U/l	358	304	412	Roche Cobas 6000	
mU/ml=U/l	503	447	559	Pishtaz Teb- ELISA	
Immunoglobulin E	KIU/l = IU/ml	69.9	59.4	80.4	Siemens Immulite 1000
	KIU/l = IU/ml	59.1	49.3	68.9	bioMerieux Vidas
	KIU/l = IU/ml	64.6	52.3	76.9	Pharmacia Unicap
	KIU/l = IU/ml	72.2	61.4	83.0	Roche Elecsys
	KIU/l = IU/ml	61.4	50.0	72.8	Tosoh
	KIU/l = IU/ml	60.8	51.7	69.9	Siemens Advia Centaur
	KIU/l = IU/ml	70.6	57.5	83.7	Siemens Immulite 2000/2500
	KIU/l = IU/ml	70.4	59.8	81.0	Roche Modular E170
	KIU/l = IU/ml	56.4	47.9	64.9	Abbott Architect
	KIU/l = IU/ml	70.7	60.1	81.3	Roche Cobas E411
	KIU/l = IU/ml	71.2	60.5	81.9	Roche Cobas 6000
	KIU/l = IU/ml	50.0	43.0	57.0	Pishtaz Teb- ELISA
Insulin	mU/l	17.3	14.7	19.9	Siemens Advia Centaur
	mU/l	19.4	16.5	22.3	Abbott AXSYM
	mU/l	6.56	5.18	7.94	Siemens Immulite 1000
	mU/l	19.4	16.5	22.3	Roche Modular E170
	mU/l	19.3	16.4	22.2	Roche Elecsys

## IMMUNOASSAY PREMIUM LEVEL 3 (IA PREMIUM 3)

Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Insulin	mU/l	16.8	14.3	19.3	Abbott Architect
	mU/l	19.7	16.7	22.7	Roche Cobas E411
	mU/l	19.3	16.4	22.2	Roche Cobas 6000
	mU/l	16.1	13.7	18.5	Beckman DxI800
Luteinising Hormone (LH)	mU/ml	57.5	48.5	66.5	Abbott AXSYM
	mU/ml	46.3	38.9	53.7	Beckman Access
	mU/ml	51.6	43.9	59.3	bioMerieux Vidas
	mU/ml	63.2	53.7	72.7	Siemens Immulite 1000
	mU/ml	52.8	44.9	60.7	Tosoh
	mU/ml	54.0	45.9	62.1	Roche Elecsys
	mU/ml	56.3	47.9	64.7	Vitros ECI
	mU/ml	58.6	49.8	67.4	Siemens Advia Centaur
	mU/ml	61.9	52.6	71.2	Siemens Immulite 2000
	mU/ml	47.0	40.0	54.0	Abbott Architect
	mU/ml	61.7	52.4	71.0	Diasorin Liaison
	mU/ml	54.4	46.2	62.6	Roche Modular E170
	mU/ml	45.5	38.7	52.3	Beckman DxI800
	mU/ml	54.0	45.9	62.1	Roche Cobas E411
	mU/ml	54.8	46.6	63.0	Roche Cobas 6000
mU/ml	45.0	39.0	51.0	Pishtaz Teb- ELISA	
Oestradiol	pmol/l	768	630	906	Abbott AXSYM
	pg/ml	209	171	247	
	pmol/l	2670	2270	3070	bioMerieux Vidas
	pg/ml	726	617	835	
	pmol/l	2110	1509	2711	Siemens Immulite 1000
	pg/ml	574	410	738	
	pmol/l	1496	1272	1720	Roche Elecsys
	pg/ml	407	346	468	
	pmol/l	2070	1760	2380	Vitros ECI
	pg/ml	563	479	647	
	pmol/l	2497	2122	2872	Beckman Access
	pg/ml	679	577	781	
	pmol/l	891	632	1150	Siemens Advia Centaur
	pg/ml	242	172	312	
	pmol/l	2022	1687	2357	Siemens Immulite 2000/2500
	pg/ml	550	459	641	
	pmol/l	1065	905	1225	Abbott Architect
	pg/ml	290	246	334	
	pmol/l	1530	1301	1759	Roche Modular E170
	pg/ml	416	354	478	
pmol/l	2571	2104	3038	Beckman DxI800	
pg/ml	699	572	826		
pmol/l	1529	1300	1758	Roche Cobas 6000	
pg/ml	416	354	478		
pmol/l	1460	1241	1679	Roche Cobas E411	
pg/ml	397	338	456		

## IMMUNOASSAY PREMIUM LEVEL 3 (IA PREMIUM 3)

Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich						
Parameter	Einheit	Zielwert	von	bis	Methoden	
Paracetamol	mmol/l	0.548	0.466	0.630	Abbott AXSYM	
	mg/l	82.9	70.5	95.3		
Parathyroid Hormone (PTH)	pmol/l	43.6	30.8	56.4	Siemens Advia Centaur	
	pg/ml	414	293	535		
	pmol/l	39.5	31.6	47.4	Siemens Immulite 1000	
	pg/ml	375	300	450		
	pmol/l	49.5	35.9	63.1	Siemens Immulite 2000	
	pg/ml	470	341	599		
	pmol/l	26.6	20.7	32.5	Roche Elecsys	
	pg/ml	253	197	309		
	pmol/l	23.8	19.2	28.4	Roche Modular E170	
	pg/ml	226	182	270		
	pmol/l	40.6	34.5	46.7	Abbott Architect	
	pg/ml	386	328	444		
	pmol/l	26.7	22.1	31.3	Roche Cobas E411	
	pg/ml	254	210	298		
Phenytoin	µmol/l	92.3	67.8	117	Siemens Advia Centaur	
	µg/ml	23.3	17.1	29.5		
	µmol/l	80.9	68.8	93.0	Abbott AXSYM	
	µg/ml	20.4	17.4	23.4		
	µmol/l	72.7	61.8	83.6	Vitros	
	µg/ml	18.4	15.6	21.2		
	µmol/l	80.8	68.7	92.9	Siemens Immulite 1000	
	µg/ml	20.4	17.3	23.5		
	µmol/l	80.0	68.0	92.0	Roche Integra	
	µg/ml	20.2	17.2	23.2		
	µmol/l	80.9	68.8	93.0	Abbott Architect	
	µg/ml	20.4	17.4	23.4		
	Primidone	µmol/l	32.7	26.2	39.2	Gravimetric
		µg/ml	7.14	5.72	8.56	
Progesterone	nmol/l	128	96.0	160	Beckman Access	
	ng/ml	40.1	30.0	50.2		
	nmol/l	112	93.5	131	Abbott AXSYM	
	ng/ml	35.1	29.3	40.9		
	nmol/l	160	136	184	bioMerieux Vidas	
	ng/ml	50.1	42.6	57.6		
	nmol/l	131	111	151	Roche Elecsys	
	ng/ml	41.0	34.7	47.3		
	nmol/l	122	104	140	Vitros ECi	
	ng/ml	38.2	32.6	43.8		
	nmol/l	100	85.0	115	Siemens Advia Centaur	
	ng/ml	31.3	26.6	36.0		

## IMMUNOASSAY PREMIUM LEVEL 3 (IA PREMIUM 3)

Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich						
Parameter	Einheit	Zielwert	von	bis	Methoden	
Progesterone	nmol/l	93.2	79.2	107	Siemens Immulite 2000/2500	
	ng/ml	29.2	24.8	33.6		
	nmol/l	109	83.0	135	Abbott Architect	
	ng/ml	34.1	26.0	42.2		
	nmol/l	129	110	148	Roche Modular E170	
	ng/ml	40.4	34.4	46.4		
	nmol/l	121	103	139	Beckman Dxl800	
	ng/ml	37.9	32.2	43.6		
	nmol/l	134	114	154	Roche Cobas E411	
	ng/ml	41.9	35.7	48.1		
	nmol/l	129	110	148	Roche Cobas 6000	
	ng/ml	40.4	34.4	46.4		
	Prolactin	µU/ml	928	789	1067	Beckman Access
		µU/ml	1240	1054	1426	Abbott AXSYM
µU/ml		1381	1150	1612	bioMerieux Vidas	
µU/ml		1060	901	1219	Siemens Immulite 1000	
µU/ml		1397	1042	1752	Tosoh	
µU/ml		1180	1003	1357	Roche Elecsys	
µU/ml		1035	880	1190	Vitros ECi	
µU/ml		931	778	1084	Siemens Advia Centaur	
µU/ml		992	843	1141	Siemens Immulite 2000/2500	
µU/ml		1285	1092	1478	Abbott Architect	
µU/ml		1031	876	1186	Diasorin Liaison	
µU/ml		1198	1018	1378	Roche Modular E170	
µU/ml		937	796	1078	Beckman Dxl800	
µU/ml		1185	1007	1363	Roche Modular E170 2nd Gen prolactin II	
µU/ml		1205	1024	1386	Roche Elecsys 2nd Gen. prolactin II	
µU/ml		1177	1000	1354	Roche Cobas E411	
µU/ml		1188	1010	1366	Roche Cobas 6000	
µU/ml		1600	1420	1780	Pishtaz Teb- ELISA	
PSA Free	ng/ml = µg/l	13.3	11.3	15.3	Siemens Immulite 1000	
	ng/ml = µg/l	13.2	11.2	15.2	Siemens Immulite 2000/2500	
	ng/ml = µg/l	12.3	10.4	14.2	Abbott Axsym - monoclonal	
	ng/ml = µg/l	15.1	12.8	17.4	Roche Elecsys	
	ng/ml = µg/l	14.3	12.2	16.4	Abbott Architect	
	ng/ml = µg/l	19.2	16.3	22.1	Beckman Access (Hybritech)	
	ng/ml = µg/l	15.5	13.2	17.8	Siemens Advia Centaur	
	ng/ml = µg/l	15.1	12.8	17.4	Roche Modular E170	
	ng/ml = µg/l	19.0	16.0	22.0	Beckman Dxl800	
	ng/ml = µg/l	14.9	12.7	17.1	Roche Cobas E411	
	ng/ml = µg/l	14.5	12.3	16.7	Roche Cobas 6000	
	PSA Total	ng/ml = µg/l	13.5	11.5	15.5	Abbott Axsym - polyclonal
ng/ml = µg/l		13.9	11.8	16.0	Abbott Axsym - monoclonal	
ng/ml = µg/l		16.9	14.4	19.4	bioMerieux Vidas	
ng/ml = µg/l		17.2	14.6	19.8	Siemens Immulite 1000 1st generation	
ng/ml = µg/l		18.1	15.4	20.8	Roche Elecsys	

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Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
PSA Total	ng/ml = µg/l	12.6	10.7	14.5	Tosoh
	ng/ml = µg/l	17.6	15.0	20.2	Beckman Access-non-standardised results
	ng/ml = µg/l	15.0	12.8	17.2	Bayer ADVIA Centaur (equimolar)
	ng/ml = µg/l	17.8	15.1	20.5	bioMerieux VIDAS TPSA
	ng/ml = µg/l	15.2	12.9	17.5	Siemens Advia Centaur
	ng/ml = µg/l	15.5	13.2	17.8	Siemens Immulite 2000/2500 1st generation
	ng/ml = µg/l	15.7	13.3	18.1	Abbott Architect
	ng/ml = µg/l	13.5	10.1	16.9	Siemens Immulite 1000 3rd generation
	ng/ml = µg/l	13.2	10.8	15.6	Siemens Immulite 2000/2500 3rd generation
	ng/ml = µg/l	7.40	6.29	8.51	Vitros ECi
	ng/ml = µg/l	8.63	7.08	10.2	Diasorin Liaison
	ng/ml = µg/l	18.1	15.4	20.8	Roche Modular E170
	ng/ml = µg/l	16.8	14.3	19.3	Beckman DxI800 non-standardised
	ng/ml = µg/l	17.6	15.0	20.2	Beckman DxI800 standardised to IRP96/670
	ng/ml = µg/l	18.4	15.6	21.2	Roche Cobas E411
ng/ml = µg/l	18.1	15.4	20.8	Roche Cobas 6000	
Salicylic Acid	mmol/l	2.86	2.43	3.29	Roche Modular E170
	mg/dl	39.5	33.6	45.4	
SHBG	nmol/l	48.0	36.0	60.0	Siemens Immulite 1000
	nmol/l	36.3	30.9	41.7	Siemens Immulite 2000/2500
	nmol/l	39.7	30.7	48.7	Roche Elecsys
	nmol/l	40.2	34.2	46.2	Roche Modular E170
	nmol/l	39.7	33.7	45.7	Roche Cobas E411
	nmol/l	40.0	33.9	46.1	Roche Cobas 6000
T Uptake	%U	47.0	43.0	51.0	Pishtaz Teb- ELISA
	%U	47.2	38.7	55.7	Siemens Immulite 1000
Testosterone	nmol/l	34.0	28.9	39.1	Abbott AXSYM
	ng/ml	9.79	8.32	11.3	
	ng/dl	979	832	1126	
	nmol/l	52.8	44.9	60.7	Siemens Immulite 1000
	ng/ml	15.2	12.9	17.5	
	ng/dl	1521	1293	1749	
	nmol/l	37.3	31.6	43.0	Roche Elecsys
	ng/ml	10.7	9.10	12.3	
	ng/dl	1074	910	1238	
	nmol/l	41.5	34.1	48.9	Vitros ECi
	ng/ml	12.0	9.82	14.2	
	ng/dl	1195	982	1408	
	nmol/l	27.4	23.3	31.5	Siemens Advia Centaur
	ng/ml	7.89	6.71	9.07	
	ng/dl	789	671	907	
	nmol/l	49.4	41.4	57.4	Siemens Immulite 2000/2500
	ng/ml	14.2	11.9	16.5	
	ng/dl	1423	1192	1654	
nmol/l	36.7	31.2	42.2	Abbott Architect	
ng/ml	10.6	8.99	12.2		
ng/dl	1057	899	1215		

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Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Testosterone	nmol/l	43.6	35.5	51.7	bioMerieux Vidas
	ng/ml	12.6	10.2	15.0	
	ng/dl	1256	1022	1490	
	nmol/l	30.5	25.9	35.1	Beckman Access
	ng/ml	8.78	7.46	10.1	
	ng/dl	878	746	1010	
	nmol/l	39.9	33.9	45.9	Roche Modular E170
	ng/ml	11.5	9.76	13.2	
	ng/dl	1149	976	1322	
	nmol/l	42.3	36.0	48.6	Tosoh
	ng/ml	12.2	10.4	14.0	
	ng/dl	1218	1037	1399	
	nmol/l	27.7	23.5	31.9	Beckman DxI800
	ng/ml	7.98	6.77	9.19	
	ng/dl	798	677	919	
nmol/l	38.2	32.5	43.9	Roche Cobas E411	
ng/ml	11.0	9.36	12.6		
ng/dl	1100	936	1264		
nmol/l	38.1	32.4	43.8	Roche Cobas 6000	
ng/ml	11.0	9.33	12.7		
ng/dl	1097	933	1261		
Theophylline	µmol/l	160	136	184	Abbott AXSYM
	µg/ml	28.8	24.5	33.1	
	µmol/l	160	134	186	Roche Integra
	µg/ml	28.8	24.1	33.5	
Thyroglobulin	ng/ml	44.2	37.6	50.8	Siemens Immulite 1000
	ng/ml	36.7	29.5	43.9	Siemens Immulite 2000
	ng/ml	76.2	64.4	88.0	Roche Elecsys
	ng/ml	75.2	63.6	86.8	Roche Modular E170
	ng/ml	75.0	63.8	86.2	Roche Cobas E411
	ng/ml	69.2	58.8	79.6	Roche Cobas 6000
Thyroid Stimulating Hormone	µU/ml = mIU/l	19.1	15.2	23.0	Abbott AxSYM Ultrasensitive hTSH II
	µU/ml = mIU/l	24.3	20.7	27.9	bioMerieux VIDAS TSH
	µU/ml = mIU/l	21.6	18.4	24.8	Siemens Immulite 1000
	µU/ml = mIU/l	21.1	17.9	24.3	Roche Elecsys
	µU/ml = mIU/l	19.7	16.7	22.7	Beckman Access hyperTSH 3rd Generation
	µU/ml = mIU/l	25.3	21.5	29.1	Tosoh
	µU/ml = mIU/l	31.4	26.7	36.1	Vitros ECi
	µU/ml = mIU/l	21.0	17.9	24.1	Siemens Advia Centaur
	µU/ml = mIU/l	21.8	18.5	25.1	Siemens Immulite 2000/2500
	µU/ml = mIU/l	18.9	16.1	21.7	Abbott Architect Ultrasensitive hTSH II
	µU/ml = mIU/l	21.1	14.9	27.3	Abbott AxSYM 3rd generation
	µU/ml = mIU/l	24.1	20.5	27.7	Diasorin Liaison
	µU/ml = mIU/l	21.3	18.1	24.5	Roche Modular E170
µU/ml = mIU/l	21.7	18.4	25.0	Siemens Dimension	

## IMMUNOASSAY PREMIUM LEVEL 3 (IA PREMIUM 3)

Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Thyroid Stimulating Hormone	µU/ml = mIU/l	22.0	16.9	27.1	bioMerieux VIDAS TSH3 Ultrasensitive
	µU/ml = mIU/l	19.4	15.9	22.9	Beckman DxI800
	µU/ml = mIU/l	19.0	16.2	21.8	Beckman DxI800 Fast TSH
	µU/ml = mIU/l	21.0	17.2	24.8	Bayer Advia Centaur 3rd Generation
	µU/ml = mIU/l	20.5	17.4	23.6	Beckman Coulter AU3000i
	µU/ml = mIU/l	21.7	18.4	25.0	Roche Cobas E411
	µU/ml = mIU/l	21.0	17.9	24.1	Roche Cobas 6000
	µU/ml = mIU/l	20.3	17.1	23.5	Beckman DxI800 Hyper TSH
Tobramycin	µmol/l	10.3	8.24	12.4	Gravimetric
	µg/ml	4.82	3.86	5.80	
Total T3	nmol/l	7.43	6.32	8.54	Abbott AXSYM
	ng/ml	4.84	4.11	5.57	
	ng/dl	484	411	557	
	nmol/l	5.93	5.04	6.82	bioMerieux Vidas
	ng/ml	3.86	3.28	4.44	
	ng/dl	386	328	444	
	nmol/l	7.00	5.95	8.05	Siemens Immulite 1000
	ng/ml	4.56	3.87	5.25	
	ng/dl	456	387	525	
	nmol/l	6.38	5.26	7.50	Roche Elecsys
	ng/ml	4.15	3.42	4.88	
	ng/dl	415	342	488	
	nmol/l	6.06	5.15	6.97	Beckman Access
	ng/ml	3.95	3.35	4.55	
	ng/dl	395	335	455	
	nmol/l	6.09	5.18	7.00	Tosoh
	ng/ml	3.96	3.37	4.55	
	ng/dl	396	337	455	
	nmol/l	7.79	6.58	9.00	Siemens Advia Centaur
	ng/ml	5.07	4.28	5.86	
	ng/dl	507	428	586	
	nmol/l	6.21	5.28	7.14	Siemens Immulite 2000/2500
	ng/ml	4.04	3.44	4.64	
	ng/dl	404	344	464	
nmol/l	5.52	4.69	6.35	Abbott Architect	
ng/ml	3.59	3.05	4.13		
ng/dl	359	305	413		
nmol/l	7.10	6.04	8.16	Vitros ECi	
ng/ml	4.62	3.93	5.31		
ng/dl	462	393	531		
nmol/l	6.27	5.33	7.21	Roche Modular E170	
ng/ml	4.08	3.47	4.69		
ng/dl	408	347	469		
nmol/l	6.28	5.34	7.22	Beckman DxI800	
ng/ml	4.09	3.48	4.70		
ng/dl	409	348	470		

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Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich						
Parameter	Einheit	Zielwert	von	bis	Methoden	
Total T3	nmol/l	6.38	5.34	7.42	Roche Cobas E411	
	ng/ml	4.15	3.48	4.82		
	ng/dl	415	348	482		
	nmol/l	6.47	5.50	7.44	Roche Cobas 6000	
		ng/ml	4.21	3.58		4.84
		ng/dl	421	358		484
	nmol/l	4.30	3.60	5.00	Pishtaz Teb- ELISA	
		ng/ml	2.80	2.30		3.30
		ng/dl	280	230		330
Total T4	nmol/l	190	145	235	Vitros ECI	
	µg/dl	14.8	11.3	18.3		
	ng/ml	148	113	183		
	nmol/l	194	165	223	Abbott AXSYM	
		µg/dl	15.1	12.9		17.3
		ng/ml	151	129		173
	nmol/l	201	171	231	bioMerieux Vidas	
		µg/dl	15.7	13.3		18.1
		ng/ml	157	133		181
	nmol/l	206	172	240	Siemens Immulite 1000	
		µg/dl	16.1	13.4		18.8
		ng/ml	161	134		188
	nmol/l	176	150	202	Roche Elecsys	
		µg/dl	13.7	11.7		15.7
		ng/ml	137	117		157
	nmol/l	177	129	225	Tosoh	
		µg/dl	13.8	10.1		17.5
		ng/ml	138	101		175
	nmol/l	195	166	224	Siemens Advia Centaur	
		µg/dl	15.2	12.9		17.5
		ng/ml	152	129		175
	nmol/l	194	165	223	Siemens Immulite 2000/2500	
		µg/dl	15.1	12.9		17.3
		ng/ml	151	129		173
	nmol/l	241	205	277	Abbott Architect	
		µg/dl	18.8	16.0		21.6
		ng/ml	188	160		216
nmol/l	170	145	195	Roche Modular E170		
	µg/dl	13.3	11.3		15.3	
	ng/ml	133	113		153	
nmol/l	171	145	197	Roche Cobas E411		
	µg/dl	13.3	11.3		15.3	
	ng/ml	133	113		153	
nmol/l	173	147	199	Roche Cobas 6000		
	µg/dl	13.5	11.5		15.5	
	ng/ml	135	115		155	

## IMMUNOASSAY PREMIUM LEVEL 3 (IA PREMIUM 3)

Art.-Nr.: KG2640/KG2633 Ch.-B.: 860EC Inhalt: 12 x 5ml/12 x 5ml Verw. bis: 2012-11

Bereich					
Parameter	Einheit	Zielwert	von	bis	Methoden
Total T4	nmol/l	235	197	273	Pishtaz Teb- ELISA
	µg/dl	18.4	15.4	21.4	
	ng/ml	184	154	214	
Valproic Acid	µmol/l	940	799	1081	Abbott AXSYM
	µg/ml	136	115	157	
	µmol/l	1012	860	1164	Siemens Immulite 1000
	µg/ml	146	124	168	
	µmol/l	952	809	1095	Roche Integra
	µg/ml	137	117	157	
	µmol/l	1029	875	1183	Siemens Immulite 2000/2500
	µg/ml	148	126	170	
	µmol/l	908	772	1044	Siemens Advia Centaur
	µg/ml	131	111	151	
	µmol/l	966	821	1111	Vitros
	µg/ml	139	118	160	
	µmol/l	906	770	1042	Siemens Dimension
	µg/ml	131	111	151	
µmol/l	911	773	1049	Abbott Architect	
µg/ml	131	112	150		
µmol/l	1051	893	1209	Roche Cobas 6000	
µg/ml	152	129	175		
Vancomycin	µmol/l	11.2	9.52	12.9	Abbott AXSYM
	µg/ml	16.6	14.1	19.1	
	µmol/l	10.8	8.64	13.0	Gravimetric
µg/ml	16.0	12.8	19.3		
Vitamin B12	pmol/l	1055	739	1371	Abbott AXSYM
	pg/ml	1430	1001	1859	
	pmol/l	1045	888	1202	Roche Elecsys
	pg/ml	1416	1203	1629	
	pmol/l	1007	844	1170	Beckman Access
	pg/ml	1364	1144	1584	
	pmol/l	920	654	1186	Siemens Immulite 1000
	pg/ml	1247	886	1608	
	pmol/l	1110	944	1276	Siemens Advia Centaur
	pg/ml	1504	1279	1729	
	pmol/l	1202	1022	1382	Abbott Architect
	pg/ml	1629	1385	1873	
	pmol/l	1069	909	1229	Roche Modular E170
	pg/ml	1448	1232	1664	
	pmol/l	980	764	1196	Beckman Dxl800
	pg/ml	1328	1035	1621	
pmol/l	1021	868	1174	Roche Cobas E411	
pg/ml	1383	1176	1590		
pmol/l	1076	915	1237	Roche Cobas 6000	
pg/ml	1458	1240	1676		