

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Universal 11731416	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
AFP PCU1 PCU2		1 st IRP WHO Reference Standard 72/225		10.5 46.8	1.26 2.81	kiU/L
CEA PCU1 PCU2		1 st IRP WHO Reference Standard 73/601		9.05 40.1	0.51 1.43	µg/L
Cortisol PCU1 PCU2	ID-MS			369 821	23.7 35.7	nmol/L
Cortisol G2 PCU1 PCU2	ID-MS			299 708	20.628 37.559	nmol/L
DHEA-S PCU1 PCU2	Gravimetry			5.64 13.2	0.29 0.53	µmol/L
Estradiol PCU1 PCU2	ID-GC/MS (Isotope dilution gas chromatography/mass spectrometry)			407 1864	17.6 45.9	pmol/L
Estradiol Gen3 PCU1 PCU2	ID-GC/MS (Isotope dilution gas chromatography/mass spectrometry)			91.8 425	5.076 11.619	pg/mL
FSH PCU1 PCU2		2 nd IRP WHO 78/549		11.2 42.9	0.25 1.04	IU/L
FT3 PCU1 PCU2	Equilibrium dialysis			5.77 21.3	0.21 0.55	pmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Universal 11731416	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
FT3 III PCU1 PCU2			Inhouse reference system FT3	5.93 22.5	0.073 0.0422	pmol/l
FT4 PCU1 PCU2			Inhouse reference system (commercially available FT4 enzyme-immunoassay)	8.31 39.2	0.23 1.26	pmol/L
FT4 II PCU1 PCU2			Inhouse reference system FT4	16.1 51.4	0.195 0.377	pmol/l
hCG STAT PCU1 PCU2		3 rd Standard 1986 (NIBSC), coded 75/537		10.0 28.4	0.37 0.65	IU/L
hCG+β PCU1 PCU2		3 rd Standard 1986 (NIBSC), coded 75/537		7.96 23.9	0.14 0.41	IU/L
IgE PCU1 PCU2		2 nd IRP WHO Reference Standard 75/502		96.1 169	3.17 8.54	kiU/L
Insulin PCU1 PCU2		WHO Reference Standard 1st IRP 66/304 (NIBSC)		28.3 79.2	1.49 3.46	mU/L
LH PCU1 PCU2		2 nd International Standard (NIBSC) 80/552		11.0 56.5	0.37 1.67	IU/L
Progesterone PCU1 PCU2	ID-GC/MS (Isotope dilution gas chromatography/mass spectrometry)			34.3 70.0	1.30 2.58	nmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Universal 11731416	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Progesteron Gen3 PCU1 PCU2	ID-GC/MS (Isotope dilution gas chromatography/mass spectrometry)			8.62 17.8	0.467 0.337	ng/mL
Prolactin II PCU1 PCU2		WHO 3 rd IRP 84/500		157 666	3.58 18.2	mIU/L
Total PSA PCU1 PCU2		WHO 96/670 (90% PSA- ACT+10% free PSA)		0.97 45.1	0.087 1.40	µg/L
S100 PCU1 PCU2		Fa. Affinity S100 antigen lot. no. Z03833		0.21 2.7	0.008 0.10	µg/L
SHBG PCU1 PCU2		NIBSC 1 st International Standard 95/560		42.5 16.2	0.70 0.30	nmol/L
Testosterone II PCU1 PCU2	ID-GC/MS (Isotope dilution gas chromatography/mass spectrometry)			21.0 8.26	0.56 0.18	nmol/L
T3 PCU1 PCU2	Gravimetry			3.53 5.44	0.09 0.12	nmol/L
T4 PCU1 PCU2	ID-GC/MS (Isotope dilution gas chromatography/mass spectrometry)			93.1 162	7.22 12.4	nmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Universal 11731416	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
TSH PCU1 PCU2		WHO 2 nd IRP (80/558)		1.64 8.72	0.06 0.49	mIU/L
T-uptake PCU1 PCU2		Reference Sera Pools with value of 0 and 1		1.47 0.78	0.01 0.02	TBI
Tg PCU1 PCU2		Certified Reference Material (CRM), 457 (Community Bureau of Reference)		17.3 70.4	0.31 2.36	µg/L
Tg II PCU1 PCU2		Certified Reference Material (CRM), 457 (Community Bureau of Reference)		20.5 79.2	0.46 1.784	ng/ml

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl MultiMarker 05341787	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
ACTH PCMM 1 PCMM 2	Gravimetry			71.0 1640	3.075 58.853	pg/mL
C-Peptid PCMM 1 PCMM 2		WHO Reference Reagent IRR 84/510 (NIBSC)		1.95 9.71	0.009 0.072	ng/mL
Insulin PCMM 1 PCMM 2		WHO Reference Standard 1st IRP 66/304 (NIBSC)		24.9 83.7	0.432 0.869	µIU/ml
PLGF PCMM 1 PCMM 2			Inhouse reference system (commercially available PLGF microtiterplate immunoassay)	94.2 937	1.847 15.739	pg/mL
sFlt-1 PCMM 1 PCMM 2			Inhouse reference system (commercially available sFlt- 1 microtiterplate immunoassay)	106 1000	4.161 18.569	pg/mL
IL-6 PCMM 1 PCMM 2		1st International Standard (NIBSC) 89/548		43.1 245	1.037 3.745	pg/mL
hGH PCMM 1 PCMM 2		WHO 98/574		768 7700	9.557 90.511	pg/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl TSH 11776479	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
TSH PCU TSH		WHO 2 nd IRP (80/558)		0.20	0.01	mIU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl TS 06516050	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Tg II PC TS		BCR Reference Material No. 457 Human Thyroglobulin		0.93	0.03	ng/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Varia 05618860	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
β-Crosslaps (Level 0) Level 1 Level 2	Gravimetry (inhouse reference material)			./. 0.27 0.71	./. 0.010 0.021	ng/mL
Calcitonin (Level 0) Level 1 Level 2		WHO 2nd IRP 89/620		./. 9.70 87.6	./. 0.248 1.515	pg/ml
Ferritin (Level 0) Level 1 Level 2		NIBSC Standard #80/602		11.6 135 886	1.1 3.4 25.0	µg/L
Folate III (Level 0) Level 1 Level 2			Inhouse reference system (Elecsys Folate II)	./. 3.99 12.0	./. 0.64 1.13	µg/L
Folate III (Level 0) Level 1 Level 2		WHO IS 03/178		./. 2.99 11.2	./. 0.80 0.92	µg/L
Osteocalcin (Level 0) Level 1 Level 2			Inhouse reference system (commercially available osteocalcin enzyme- immunoassay/ radiobinding assay)	./. 19.4 97.7	./. 0.221 2.17	µg/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Varia 05618860	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
PTH (Level 0) Level 1 Level 2			Inhouse reference system (commercially available PTH radiobinding assay)	20.2 57.9 192	7.88 14.1 23.26	ng/L
PTH Stat (Level 0) Level 1 Level 2			Inhouse reference system (commercially available PTH radiobinding assay)	20.0 52.9 140	8.20 12.93 22.27	ng/L
PTH 1-84 (Level 0) Level 1 Level 2		NIBSC/WHO 95/646		14,1 57,9 192	0.404 1.08 3.15	ng/L
P1NP (Level 0) Level 1 Level 2	Gravimetry (inhouse reference material)			./. 30.4 179	./. 0.830 3.536	µg/L
Vitamin D total (Level 0) Level 1 Level 2		NIST-Standard		13.5 20.6 37.8	1.01 1.12 1.64	ng/mL
Vitamin D total for US (Level 0) Level 1 Level 2		NIST-Standard		12.5 16.7 31.4	1.231 1.88 1.656	ng/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Varia 05618860	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Vitamin B12 (Level 0) Level 1 Level 2			Inhouse reference system (Biorad Quantaphase II B12)	./. 490 953	./. 32.6 94.3	ng/L
Vitamin B12 II (Level 0) Level 1 Level 2			Inhouse reference system Elecsys B12 Gen2	220 450 905	21.7 25.8 76.7	ng/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Cardiac II 04917049	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
CK-MB PC Cardiac II 1 PC Cardiac II 2			Inhouse reference system (Elecsys CK MB STAT)	5.71 58.3	0.11 1.15	ng/mL
Myoglobin PC Cardiac II 1 PC Cardiac II 2			Inhouse reference system (Elecsys Myoglobin STAT)	87.2 1130	2.63 28.8	ng/mL
Pro BNP II PC Cardiac II 1 PC Cardiac II 2			Inhouse reference system (Elecsys proBNP 1.GEN)	149 4920	2.92 72.5	ng/L
Digitoxin PC Cardiac II 1 PC Cardiac II 2	Gravimetry	USP Digitoxin		15.2 34.7	0.33 0.50	µg/L
Digoxin PC Cardiac II 1 PC Cardiac II 2	Gravimetry	USP Digoxin		1.11 3.79	0.05 0.08	µg/L
GDF-15 PC Cardiac II 1 PC Cardiac II 2	Gravimetry			1350 7450	35.173 175.025	pg/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Troponin T 03530469	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Troponin T PC Troponin T 1 PC Troponin T 2			Inhouse reference system (Elecsys Troponin T STAT)	0.076 2.49	0.001 0.04	µg/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Troponin 05095107	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Troponin T hs PC Troponin 1 PC Troponin 2			Inhouse reference system (Elecsys Troponin T hs)	27.0 2209	7.37 27.2	pg/mL
Troponin I PC Troponin 1 PC Troponin 2			Inhouse reference system (Elecsys Troponin I)	0.75 16.0	0.026 0.28	µg/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Tumor Marker 11776452	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
AFP PC TM 1 PC TM 2		1 st IRP WHO Reference Standard 72/225		9.05 108	0.88 2.65	kIU/L
CEA PC TM 1 PC TM 2		1 st IRP WHO Reference Standard 73/601		5.58 58.0	0.11 1.05	µg/L
CA 15-3 II PC TM 1 PC TM 2			Inhouse reference system (commercially available CA15-3 radiobinding immunoassay)	25.0 114	1.08 3.93	kIU/L
CA 19-9 PC TM 1 PC TM 2			Inhouse reference system (commercially available CA19-9 radiobinding immunoassay)	20.8 102	2.23 3.71	kIU/L
CA 72-4 PC TM 1 PC TM 2			Inhouse reference system (commercially available CA72-4 radiobinding - immunoassay)	4.33 47.5	0.56 1.43	kIU/L
CA 125 II PC TM 1 PC TM 2			Inhouse reference system (commercially available CA 125 radiobinding immunoassay)	37.8 112	2.00 3.32	kIU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Tumor Marker 11776452	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
CYFRA 21-1 PC TM 1 PC TM 2			Inhouse reference system (commercially available Cyfra 21-1 enzyme-immunoassay)	3.65 32.4	0.10 0.64	µg/L
Ferritin PC TM 1 PC TM 2		NIBSC Standard #80/602		28.9 259	2.01 6.68	µg/L
NSE PC TM 1 PC TM 2			Inhouse reference system (commercially available NSE enzyme-immunoassay)	9.27 88.5	0.54 4.72	µg/L
Free PSA PC TM 1 PC TM 2		WHO 96/668 (100% freePSA)		1.07 11.4	0.03 0.27	µg/L
Total PSA PC TM 1 PC TM 2		WHO 96/670 (90% PSA- ACT+10% free PSA)		4.95 43.6	0.18 0.89	µg/L
TG PC TM 1 PC TM 2		Certified Reference Material (CRM), 457 (Community Bureau of Reference)		35.6 203	0.99 3.64	µg/L
hCG+β 2. gen PC TM 1 PC TM 2		3 rd Standard 1986 (NIBSC), coded 75/537		12.2 1240	0.31 23.6	IU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl proGRP 06505988	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
proGRP PC proGRP 1 PC proGRP 2			Inhouse reference system (commercially available proGRP immunoassay)	33.2 593	3.129 7.874	pg/ml

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Anti-HAV 04855043	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Anti-HAV PC Anti-HAV 1 PC Anti-HAV 2		Second International Standard for Anti-Hepatitis A, Immunoglobulin, Human, NIBSC code: 97/646		18.9 36.5	0.99 2.91	IU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Anti-HAV 05524270	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Anti-HAV PC Anti-HAV 1 PC Anti-HAV 2		Second International Standard for Anti-Hepatitis A, Immunoglobulin, Human, NIBSC code: 97/646		12.8 36.8	0.69 2.72	IU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Anti-HBs 11876317	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Anti-HBs PC Anti-HBs 1 PC Anti-HBs 2		1 st WHO Reference Standard 1977		0.4 86	0.21 1.7	IU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl HBsAg 11876309	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty 1	Unit
HBsAg PC HBsAg 1 PC HBsAg 2		HBsAg Subtype adw2 NIBSC 00/588		0 0.094	0.002 0.005	IU/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl HBsAg II 04687876	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty 1	Unit
HBsAg II quant PC HBsAg 1 PC HBsAg 2		HBsAg Subtype adw2 NIBSC 00/588		0 0.14	0.002 0.004	IU/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl HBsAg II quant II 07143745	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty 1	Unit
HBsAg II quant II PC HBsAgQN 1 PC HBsAgQN 2 PC HBsAgQN 3		HBsAg Subtype adw2 NIBSC 00/588	in house reference system (HBsAg II quant)	3.74 79.7 83.2	0.388 4.534 0.033	IU/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Thyro AB 05042666	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Anti-TSHR PC ThyroAB 1 PC ThyroAB 2		International Standard NIBSC 90/672		4.83 19.1	0.62 0.53	IU/L
Anti-TPO PC ThyroAB 1 PC ThyroAB 2		International Standard (NIBSC) 66/387		43.6 113	1.60 4.34	kiU/L
Anti-TG PC ThyroAB 1 PC ThyroAB 2		International Standard (NIBSC) 65/93		105 212	4.69 4.80	kiU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Maternal Care 04899881	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Free HCG+Beta PCMC level 1 PCMC level 2 PCMC level 3		WHO Reference Standard 75/551		14.8 49.93 100.2	0.237 0.884 1.80	IU/L
PAPP-A PCMC level 1 PCMC level 2 PCMC level 3			Kryptor PAPP-A (BRAHMS)	5000 2490 240	98.702 71.907 10.669	mIU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Procalcitonin 05056888	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
PCT PC PCT1 PC PCT2			PCT BRAHMS LIA	0.46 9.40	0.07 0.32	ng/ml

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Anti-CCP 05031664	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
a-CCP PC Anti-CCP1 PC Anti-CCP2			Eurodiagnostics Immunoscan RA	26.4 91.3	0.53 1.06	U/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Toxo IgG 04618823	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Toxo IgG PCTIG level 1 PCTIG level 2		3 rd WHO Reference Standard TOX M (NIBSC)		1.00 50.0	0.125 1.410	KIU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Rub IgG 04618807	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Rubella IgG PCRIG level 1 PCRIG level 2		1 st WHO Reference Standard RUBI-1-94 (NIBSC)		4.00 75.0	0.174 1.869	kiU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl CMV IgG 04784600	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
CMV IgG PCCIG level 1 PCCIG level 2		Positive human sera with arbitrary internal concentration		1.50 25.0	0.029 0.239	KU/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl HE4 05950953	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
HE4 PC HE4 1 PC HE4 2			HE4 Fujirebio MTP	45.0 354	3.20 28.2	pmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl ISD 05889081	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Cyclosporine PC ISD1 PC ISD2 PC ISD3	Gravimetry			67.5 360 1230	7.651 16.507 66.835	ng/mL
Sirolimus PC ISD1 PC ISD2 PC ISD3	Gravimetry			2.66 9.60 16.9	0.283 0.448 0.655	ng/mL
Tacrolimus PC ISD1 PC ISD2 PC ISD3	Gravimetry			2.085 9.793 15.978	0.066 0.248 0.266	ng/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl ISD E 07294131	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Everolimus PC ISD E1 PC ISD E2 PC ISD E3	Gravimetry			2.71 9.84 20.1	0.295 0.635 1.078	ng/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl AMH 06709966	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
AMH PC AMH 1 PC AMH 2	Beckmann Coulter AMH GII			0.99 5.55	0.062 0.246	ng/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Saliva 06687768	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Cortisol G2 PC CORT 1 PC CORT 2	ID-MS			10.1 31.2	0.248 0.537	nmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Lungcancer 07360070	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty 1	Unit
SCC PC LC 1 PC LC 2	Abbott Architect SCC			3.48 35.7	0.15 0.81	ng/ml
CYFRA PC LC 1 PC LC 2			Inhouse reference system (commercially available Cyfra 21-1 enzyme- immunoassay)	3.95 34.4	0.10 0.61	µg/L
NSE PC LC 1 PC LC 2			Inhouse reference system (commercially available NSE enzyme- immunoassay)	11.9 99.8	0.37 3.17	µg/L
proGRP PC LC 1 PC LC 2			Inhouse reference system (commercially available proGRP immunoassay)	64.5 901	1.57 26.6	pg/ml

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl SCC 07127006	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty 1	Unit
SCC PC SCC 1 PC SCC 2	Abbott Architect SCC			2.06 22.2	0.11 0.35	ng/ml

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Growth 07476108	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty 1	Unit
IGF-1 PC Growth 1 PC Growth 2		WHO IS 02/254		47.0 343	2.168 9.072	ng/ml
hGH PC Growth 1 PC Growth 2		NIBCS/WHO 98/574 in hGH free human serum		936 9500	14.891 105.115	pg/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Vitamin D total G2 07464266	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Vitamin D total G2 Level 1 Level 2	LC-MS/MS			15.3 29.2	2.747 2.372	ng/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte beta-Amyloid(1-42) PreciControl 06986846	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncertainty 1	Unit
Abeta 42 Level 1 Level 2	Gravimetry via LC-MS			499 908	14.156 34.915	pg/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl pTau 07357052	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
pTau PC pTau 1 PC pTau 2	Gravimetry (ASA)			36 79.7	0.590 2.246	pgl/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl tTau 07357028	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
tTau PC tTau 1 PC tTau 2	Gravimetry (ASA)			170 460	7.581 15.951	pg/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl AMH Plus 07957211	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
AMH Plus PC AMH Plus 1 PC AMH Plus 2	Beckmann Coulter AMH GII			7.35 36.2	1.020 3.620	pmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Anti-p53 07751630	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Anti-p53 PC Anti-p53 1 PC Anti-p53 2	Gravimetry (inhouse reference material)			0.2 5.21	0.006 0.100	µg/mL

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).

Elecsys® PreciControl
Traceability And Uncertainty

Analyte PreciControl Active B12 07713223	Reference Method	Reference Material	Selected Measurement Procedure	Assigned Value	Uncer- tainty ¹	Unit
Active B12 PC ACTB12 1 PC ACTB12 2		WHO NIBSC 03/178		34.3 55.9	1.372 2.314	pmol/L

¹ The uncertainty (expanded uncertainty; k = 2) was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM:1993).