

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of kit)

Filter: Slovakia, minimal size of groups n = 5

Dead line: 24.10.2017

EQA round: E14/17 - Hormones 1

RoM = robust average	AV = assigned value	Dmax = acceptable percent difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	RV = reference value	UL = upper limit
Ntot = total number of participants	CVE = consensus value from experts	Neva = number of evaluated participants
Nout = number of results excluded before calculation	CVP = consensus value from all participants	Nsuc = number of successful participants
	CVPG = consensus value from participants groups	Srel = success (relative)
	U _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability										Traceability												
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}		
(121) Total T3					1								1	1	100%						1	1	100%	
— Samples and groups —	[nmol/L]																							
Sample A		3,20			1								1	1	100%	CRV	3,299	0,035	20%	2,63	3,96	1	1	100%
Other					1	0						1									1			
							1x 4/29									1x 4/29								
Sample B		2,50			1								1	1	100%	CRV	2,897	0,029	20%	2,31	3,48	1	1	100%
Other					1	0						1									1			
							1x 4/29									1x 4/29								
(122) Total T4					1								1	1	100%						1	1	100%	
— Samples and groups —	[nmol/L]																							
Sample A		128			1								1	1	100%	CRV	141	1,4	17%	117	165	1	1	100%
Other					1	0						1									1			
							1x 4/29									1x 4/29								
Sample B		93,0			1								1	1	100%	CRV	103,7	1,0	17%	86	122	1	1	100%
Other					1	0						1									1			
							1x 4/29									1x 4/29								
(123) TSH					28								28	27	96%						0			
— Samples and groups —	[mU/L]																							
Sample A		1,46	0,14	9,7	28								28	27	96%						0			
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		1,34	0,07	5,9	8	0	CVPG	1,33	0,011	14%	1,14	1,52	8											
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		1,56	0,04	3,1	12	0	CVPG	1,58	,0047	14%	1,35	1,81	12											
(4) LIA (CLIA, CMIA, ILMA); (179) Siemens (Bayer)		1,42	0,01	1,2	5	0	CVPG	1,38	0,012	14%	1,18	1,58	5											
Other					3	0							3											
							1x 3/25, 1x 4/1, 1x 4/29																	
Sample B		15,1	1,4	9,1	28								28	28	100%						0			
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		14,0	0,99	7,0	8	0	CVPG	14,3	0,14	14%	12,2	16,4	8											
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		16,2	0,70	4,3	12	0	CVPG	16,3	0,046	14%	14	18,6	12											
(4) LIA (CLIA, CMIA, ILMA); (179) Siemens (Bayer)		14,3	0,22	1,6	5	0	CVPG	14,2	0,094	14%	12,2	16,2	5											
Other					3	0							3											
							1x 3/25, 1x 4/1, 1x 4/29																	
(124) Free T4					27								27	24	89%						0			
— Samples and groups —	[pmol/L]																							
Sample A		24,8	3,3	13	27								27	25	93%						0			
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		21,6	2,3	11	7	0	CVPG	20,7	0,22	13%	18	23,4	7											
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		27,3	0,86	3,2	12	0	CVPG	27	0,11	13%	23,4	30,6	12											
(4) LIA (CLIA, CMIA, ILMA); (179) Siemens (Bayer)		23,3	0,78	3,3	5	0	CVPG	22,7	0,30	13%	19,7	25,7	5											

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Test	[unit]	Comparability					Traceability																	
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}		
(124) Free T4					27							27	24	89%									0	
Samples and groups	[pmol/L]																							
Sample A		24,8	3,3	13	27							27	25	93%									0	
Other					3	0						3												
Sample B		19,0	2,8	15	27							27	24	89%									0	
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		15,8	2,4	15	7	0	CVPG	15,1	0,16	13%	13,1	17,1		7										
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		21,0	0,68	3,2	12	0	CVPG	20,6	0,079	13%	17,9	23,3		12										
(4) LIA (CLIA, CMIA, ILMA); (179) Siemens (Bayer)		18,7	1,1	6,1	5	0	CVPG	17,6	0,26	13%	15,3	19,9		5										
Other					3	0								3										
(125) Free T3					18							18	16	89%									0	
Samples and groups	[pmol/L]																							
Sample A		10,2	1,5	14	18							18	16	89%									0	
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		11,2	0,44	4,0	7	0	CVPG	11,5	0,041	15%	9,77	13,3		7										
(4) LIA (CLIA, CMIA, ILMA); (179) Siemens (Bayer)		10,5	0,73	6,9	5	0	CVPG	10,0	0,059	15%	8,5	11,5		5										
Other					6	0								6										
Sample B		9,61	1,4	14	18							18	17	94%									0	
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		10,5	0,50	4,7	7	0	CVPG	10,6	0,036	15%	9,01	12,2		7										
(4) LIA (CLIA, CMIA, ILMA); (179) Siemens (Bayer)		9,86	0,25	2,6	5	0	CVPG	9,41	0,058	15%	7,99	10,9		5										
Other					6	0								6										
(200) Ferritin					24							22	20	91%									0	
Samples and groups	[µg/L]																							
Sample A		617	86	14	24							22	22	100%									0	
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		653	14	2,2	5	0	CVPG	644	6,3	24%	489	799		5										
Other					19	0								17										
Sample B		43,5	13	30	24							22	20	91%									0	
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		55,9	9,3	17	5	0	CVPG	54,9	0,99	24%	41,7	68,1		5										
Other					19	0								17										
(301) Cortisol					14							14	13	93%									14	
Samples and groups	[nmol/L]																						14	
Sample A		953	120	13	14							14	13	93%	CRV	980	18	22%	764	1200		14	14	100%
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		838	18	2,2	5	0	CVPG	876	22	16%	735	1020		5								5		
Other					9	0								9									9	
Sample B		277	28	10	14							14	14	100%	CRV	282,6	2,8	22%	220	345		14	14	100%
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		249	2,4	0,95	5	0	CVPG	260	6,5	16%	218	302		5								5		
Other					9	0								9									9	

