

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of kit)

Filter: Slovakia, minimal size of groups n = 5

EQA round: E24/18 - Hormones 2

Dead line: 23.10.2018

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											
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}
(193) Ferritin					22						20	18	90%
Samples and groups	[µg/L]												
Sample A		59,4	14	23	22						20	19	95%
Other					22	0					20		
							4x 4/1, 4x 4/12, 4x 4/60, 2x 4/149, 3x 4/179, 1x 6/1, 2x 6/58, 2x 6/178						
Sample B		306	66	22	22						20	19	95%
Other					22	0					20		
							4x 4/1, 4x 4/12, 4x 4/60, 2x 4/149, 3x 4/179, 1x 6/1, 2x 6/58, 2x 6/178						
(320) LH					18						18	17	94%
Samples and groups	[U/L]												
Sample A		10,4	1,9	18	18						18	17	94%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		8,60	0,34	4,0	5	0	CVPG	8,72	0,16	15%	7,41	10,1	5
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		12,3	0,70	5,7	5	0	CVPG	12,3	0,072	15%	10,4	14,2	5
Other					8	0							8
							1x 3/25, 2x 4/1, 1x 4/29, 2x 4/149, 2x 4/179						
Sample B		51,9	9,4	18	18						18	18	100%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		41,7	2,3	5,6	5	0	CVPG	41,2	0,77	15%	35	47,4	5
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		56,0	1,7	3,0	5	0	CVPG	55,4	0,28	15%	47	63,8	5
Other					8	0							8
							1x 3/25, 2x 4/1, 1x 4/29, 2x 4/149, 2x 4/179						
(321) FSH					18						18	18	100%
Samples and groups	[U/L]												
Sample A		84,9	20	23	18						18	18	100%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		67,4	4,7	6,9	5	0	CVPG	68,5	1,2	15%	58,2	78,8	5
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		92,9	4,9	5,3	5	0	CVPG	92,7	0,61	15%	78,7	107	5
Other					8	0							8
							1x 3/25, 2x 4/1, 1x 4/29, 2x 4/149, 2x 4/179						
Sample B		7,33	0,72	9,8	18						18	18	100%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		6,99	0,44	6,4	5	0	CVPG	7,07	0,12	15%	6	8,14	5
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		7,62	0,47	6,1	5	0	CVPG	7,58	0,050	15%	6,44	8,72	5
Other					8	0							8
							1x 3/25, 2x 4/1, 1x 4/29, 2x 4/149, 2x 4/179						
(322) Prolactin					19						18	17	94%
Samples and groups	[mU/L]												
Sample A		239	35	15	19						18	18	100%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		227	3,0	1,3	6	0	CVPG	231	4,3	16%	194	268	6
Other					13	0							12
							1x 1/36, 1x 3/25, 2x 4/29, 4x 4/60, 2x 4/149, 3x 4/179						
Sample B		729	70	9,5	19						18	17	94%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		697	35	5,0	6	0	CVPG	688	13	16%	577	799	6
Other					13	0							12
							1x 1/36, 1x 3/25, 2x 4/29, 4x 4/60, 2x 4/149, 3x 4/179						
(325) Insulin					8						7	7	100%
Samples and groups	[mU/L]												
Sample A		21,2	5,8	27	8						7	7	100%
Other					8	0							7
							1x 1/36, 3x 4/1, 2x 4/60, 2x 4/179						
Sample B		120	30	25	8						7	7	100%
Other					8	0							7
							1x 1/36, 3x 4/1, 2x 4/60, 2x 4/179						
(326) Folate					20						20	19	95%
Samples and groups	[nmol/L]												
Sample A		44,9	7,6	17	20						20	20	100%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		49,5	0,86	1,7	5	0	CVPG	46,9	0,67	27%	34,2	59,6	5
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		40,9	3,4	8,3	8	0	CVPG	41,9	0,44	27%	30,5	53,3	8
Other					7	0							7
							3x 4/1, 2x 4/149, 2x 4/179						
Sample B		30,5	6,7	22	20						20	19	95%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		32,7	0,52	1,6	5	0	CVPG	31,4	0,50	27%	22,9	39,9	5

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}
							AV	U _{AV}	D _{max}	LL	UL				
(326) Folate	[nmol/L]				20								20	19	95%
Samples and groups															
Sample B		30,5	6,7	22	20								20	19	95%
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		27,6	4,5	16	8	0	CVPG	27	0,29	27%	19,7	34,3	8		
Other					7	0							7		
								3x 4/1, 2x 4/149, 2x 4/179							
(327) Vitamin B12	[pmol/L]				22								22	18	82%
Samples and groups															
Sample A		223	32	15	22								22	19	86%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		185	24	13	5	0	CVPG	166	3,8	20%	132	200	5		
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		242	18	7,6	8	0	CVPG	239	2,3	20%	191	287	8		
Other					9	0							9		
								3x 4/1, 1x 4/29, 2x 4/149, 3x 4/179							
Sample B		697	92	13	22								22	20	91%
(4) LIA (CLIA, CMIA, ECLIA); (12) Beckman Coulter		605	65	11	5	0	CVPG	579	13	20%	463	695	5		
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		732	64	8,8	8	0	CVPG	725	4,5	20%	580	870	8		
Other					9	0							9		
								3x 4/1, 1x 4/29, 2x 4/149, 3x 4/179							
(328) hGH	[mU/L]				7								7	6	86%
Samples and groups															
Sample A		9,71	1,3	13	7								7	6	86%
Other					7	0							7		
								1x 1/36, 2x 4/12, 3x 4/29, 1x 4/60							
Sample B		36,9	2,7	7,3	7								7	6	86%
Other					7	0							7		
								1x 1/36, 2x 4/12, 3x 4/29, 1x 4/60							
(329) IGF-1	[µg/L]				5								5	5	100%
Samples and groups															
Sample A		181	16	8,9	5								5	5	100%
Other					5	0							5		
								1x 1/36, 4x 4/29							
Sample B		293	19	6,3	5								5	5	100%
Other					5	0							5		
								1x 1/36, 4x 4/29							
(390) Renin	[ng/L]				3								2	2	100%
Samples and groups															
Sample A		33,3	4,7	14	3								2	2	100%
Other					3	0							2		
								1x 1/185, 1x 2/66, 1x 4/164							
Sample B		34,3	4,1	12	3								2	2	100%
Other					3	0							2		
								1x 1/185, 1x 2/66, 1x 4/164							
(392) IGF-BP3	[µg/L]				2								1	1	100%
Samples and groups															
Sample A		3070	750	24	2								1	1	100%
Other					2	0							1		
								1x 1/183, 1x 4/29							
Sample B		3220	700	22	2								1	1	100%
Other					2	0							1		
								1x 1/183, 1x 4/29							
(393) C-peptide	[pmol/L]				12								11	11	100%
Samples and groups															
Sample A		251	61	24	12								11	11	100%
Other					12	0							11		
								1x 1/36, 2x 4/1, 2x 4/29, 4x 4/60, 3x 4/179							
Sample B		251	63	25	12								11	11	100%
Other					12	0							11		
								1x 1/36, 2x 4/1, 2x 4/29, 4x 4/60, 3x 4/179							
(394) SHBG	[nmol/L]				9								9	8	89%
Samples and groups															
Sample A		29,7	2,9	9,8	9								9	8	89%
Other					9	0							9		
								1x 4/1, 1x 4/12, 2x 4/29, 3x 4/60, 2x 4/179							
Sample B		30,6	2,8	9,3	9								9	8	89%
Other					9	0							9		
								1x 4/1, 1x 4/12, 2x 4/29, 3x 4/60, 2x 4/179							
(405) Parathyroid hormone (PTH)	[pmol/L]				19								19	18	95%
Samples and groups															
Sample A		0,892	0,25	28	19								19	19	100%
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		1,02	0,12	12	13	0	CVPG	1,06	0,022 ± 0,28	0,784	1,34		13		

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability							
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(405) Parathyroid hormone (PTH)					19							19	18	95%
Samples and groups	[pmol/L]													
Sample A		0,892	0,25	28	19							19	19	100%
Other					6	0						6		
							4x 4/12, 1x 4/29, 1x 4/179							
Sample B		8,44	1,1	13	19							19	18	95%
(4) LIA (CLIA, CMIA, ECLIA); (60) Roche		7,99	0,77	9,6	13	0	CVPG	8,08	0,089	23%	6,22	9,94	13	
Other					6	0						6		
							4x 4/12, 1x 4/29, 1x 4/179							

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End of report

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