

Summary statistics - quantitative results

(Groups: measurement principle, manufacturer of kit)

Filter: Slovakia, minimal size of groups n = 5

EQA round: E22/18 - Hormones 2

Dead line: 08.05.2018

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}	S _{rel}
(193) Ferritin					21							19	19	100%
Samples and groups	[µg/L]													
Sample A		85,8	17	20	21							19	19	100%
Other					21	0						19	19	100%
							4x 4/1, 4x 4/12, 4x 4/60, 1x 4/149, 3x 4/179, 1x 6/1, 1x 6/58, 1x 6/60, 2x 6/178					19	19	100%
Sample B		39,0	8,7	22	21							19	19	100%
Other					21	0						19	19	100%
							4x 4/1, 4x 4/12, 4x 4/60, 1x 4/149, 3x 4/179, 1x 6/1, 1x 6/58, 1x 6/60, 2x 6/178					19	19	100%
(320) LH					16							16	16	100%
Samples and groups	[U/L]													
Sample A		18,3	5,8	32	16							16	16	100%
(4) LIA (CLIA, CMIA, ILMA); (12)		12,6	0,82	6,5	6	0	CVPG	12,9	0,21	15%	10,9	14,9	6	6
Beckman Coulter														
Other					10	0						10	10	100%
							1x 3/25, 1x 4/1, 1x 4/29, 4x 4/60, 1x 4/149, 2x 4/179							
Sample B		14,2	4,3	31	16							16	16	100%
(4) LIA (CLIA, CMIA, ILMA); (12)		9,86	0,70	7,1	6	0	CVPG	10,1	0,18	15%	8,58	11,7	6	6
Beckman Coulter														
Other					10	0						10	10	100%
							1x 3/25, 1x 4/1, 1x 4/29, 4x 4/60, 1x 4/149, 2x 4/179							
(321) FSH					16							16	14	88%
Samples and groups	[U/L]													
Sample A		9,16	0,87	9,5	16							16	14	88%
(4) LIA (CLIA, CMIA, ILMA); (12)		8,59	0,36	4,1	6	0	CVPG	9,01	0,19	15%	7,65	10,4	6	6
Beckman Coulter														
Other					10	0						10	10	100%
							1x 3/25, 1x 4/1, 1x 4/29, 4x 4/60, 1x 4/149, 2x 4/179							
Sample B		57,7	12	20	16							16	15	94%
(4) LIA (CLIA, CMIA, ILMA); (12)		49,6	0,69	1,4	6	0	CVPG	50,2	1,1	15%	42,6	57,8	6	6
Beckman Coulter														
Other					10	0						10	10	100%
							1x 3/25, 1x 4/1, 1x 4/29, 4x 4/60, 1x 4/149, 2x 4/179							
(322) Prolactin					17							17	14	82%
Samples and groups	[mU/L]													
Sample A		154	33	22	17							17	14	82%
(4) LIA (CLIA, CMIA, ILMA); (12)		134	11	8,2	6	0	CVPG	141	2,7	16%	118	164	6	6
Beckman Coulter														
Other					11	0						11	11	100%
							1x 1/36, 1x 3/25, 2x 4/29, 3x 4/60, 1x 4/149, 3x 4/179							
Sample B		383	46	12	17							17	15	88%
(4) LIA (CLIA, CMIA, ILMA); (12)		361	41	11	6	0	CVPG	377	8,1	16%	316	438	6	6
Beckman Coulter														
Other					11	0						11	11	100%
							1x 1/36, 1x 3/25, 2x 4/29, 3x 4/60, 1x 4/149, 3x 4/179							
(325) Insulin					8							7	7	100%
Samples and groups	[mU/L]													
Sample A		20,6	4,6	22	8							7	7	100%
Other					8	0						7	7	100%
							1x 1/36, 3x 4/1, 2x 4/60, 2x 4/179							
Sample B		53,6	12	23	8							7	7	100%
Other					8	0						7	7	100%
							1x 1/36, 3x 4/1, 2x 4/60, 2x 4/179							
(326) Folate					19							19	17	89%
Samples and groups	[nmol/L]													
Sample A		26,0	4,2	16	19							19	18	95%
(4) LIA (CLIA, CMIA, ILMA); (12)		29,3	0,44	1,5	5	0	CVPG	28,7	0,44	27%	20,9	36,5	5	5
Beckman Coulter														
(4) LIA (CLIA, CMIA, ILMA); (60)		22,5	2,1	9,2	6	0	CVPG	21,4	0,19	27%	15,6	27,2	6	6
Roche														
Other					8	0						8	8	100%
							4x 4/1, 1x 4/149, 3x 4/179							
Sample B		18,6	3,6	19	19							19	17	89%
(4) LIA (CLIA, CMIA, ILMA); (12)		21,1	0,69	3,3	5	0	CVPG	20,9	0,39	27%	15,2	26,6	5	5
Beckman Coulter														
(4) LIA (CLIA, CMIA, ILMA); (60)		15,2	1,1	7,1	6	0	CVPG	14,6	0,16	27%	10,6	18,6	6	6
Roche														
Other					8	0						8	8	100%
							4x 4/1, 1x 4/149, 3x 4/179							
(327) Vitamin B12					20							20	17	85%
Samples and groups	[pmol/L]													
Sample A		580	81	14	20							20	18	90%

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Test	[unit]						Comparability						N _{eva}	N _{suc}	S _{rel}
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL				
(327) Vitamin B12					20							20	17	85%	
Samples and groups	[pmol/L]														
Sample A		580	81	14	20							20	18	90%	
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		485	18	3,8	5	0	CVPG	478	9,5	20%	382	574	5		
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		645	17	2,6	6	0	CVPG	607	3,8	20%	485	729	6		
Other					9	0							9		
								4x 4/1, 1x 4/29, 1x 4/149, 3x 4/179							
Sample B		328	68	21	20							20	17	85%	
(4) LIA (CLIA, CMIA, ILMA); (12) Beckman Coulter		261	24	9,4	5	0	CVPG	257	6,2	20%	205	309	5		
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		375	52	14	6	0	CVPG	357	2,9	20%	285	429	6		
Other					9	0							9		
								4x 4/1, 1x 4/29, 1x 4/149, 3x 4/179							
(328) hGH					7							7	7	100%	
Samples and groups	[mU/L]														
Sample A		5,03	0,82	16	7							7	7	100%	
Other					7	0							7		
								1x 1/36, 2x 4/12, 3x 4/29, 1x 4/60							
Sample B		20,2	2,8	14	7							7	7	100%	
Other					7	0							7		
								1x 1/36, 2x 4/12, 3x 4/29, 1x 4/60							
(329) IGF-1					5							5	5	100%	
Samples and groups	[µg/L]														
Sample A		137	4,4	3,2	5							5	5	100%	
Other					5	0							5		
								1x 1/36, 4x 4/29							
Sample B		140	4,4	3,2	5							5	5	100%	
Other					5	0							5		
								1x 1/36, 4x 4/29							
(390) Renin					3							2	2	100%	
Samples and groups	[ng/L]														
Sample A		42,9	6,4	15	3							2	2	100%	
Other					3	0							2		
								1x 1/185, 1x 2/66, 1x 4/164							
Sample B		40,8	8,0	19	3							2	2	100%	
Other					3	0							2		
								1x 1/185, 1x 2/66, 1x 4/164							
(392) IGF-BP3					2							1	1	100%	
Samples and groups	[µg/L]														
Sample A		3030	810	27	2							1	1	100%	
Other					2	0							1		
								1x 1/183, 1x 4/29							
Sample B		3060	960	31	2							1	1	100%	
Other					2	0							1		
								1x 1/183, 1x 4/29							
(393) C-peptide					12							11	11	100%	
Samples and groups	[pmol/L]														
Sample A		148	33	23	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		147	33	23	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					7							7	7	100%	
Samples and groups	[nmol/L]														
Sample A		33,9	3,9	12	7							7	7	100%	
Other					7	0							7		
								1x 4/1, 2x 4/12, 2x 4/29, 2x 4/60							
Sample B		33,0	4,6	14	7							7	7	100%	
Other					7	0							7		
								1x 4/1, 2x 4/12, 2x 4/29, 2x 4/60							
(405) Parathyroid hormone (PTH)					18							18	17	94%	
Samples and groups	[pmol/L]														
Sample A		19,2	2,1	11	18							18	17	94%	
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		18,4	1,6	8,8	12	0	CVPG	18,1	0,19	23%	13,9	22,3	12		
Other					6	0							6		
								4x 4/12, 1x 4/29, 1x 4/179							
Sample B		4,45	0,66	15	18							18	17	94%	
(4) LIA (CLIA, CMIA, ILMA); (60) Roche		4,40	0,59	13	12	0	CVPG	4,34	0,056	23%	3,34	5,34	12		
Other					6	0							6		
								4x 4/12, 1x 4/29, 1x 4/179							