

EQA round: E23/23 - Hormones 2

Deadline: 25.7.2023

Setup: groups - measurement principle, manufacturer of kit; Slovakia; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D _{max} = acceptable difference
SD = standard deviation	CVPG = consensus of the participants' groups	LL = lower limit
CV = coefficient of variation	U _{AV} = expanded uncertainty of the assigned value (k = 2)	UL = upper limit
N _{tot} = total number of the results		N _{eva} = number of the results assessed
N _{out} = number of the results removed before calculation		N _{suc} = number of successful results
		S _{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]
							AV	U _{AV}	D _{max}	LL	UL			
(393) C-peptide	[pmol/L]				8							7	6	86
Sample A												7	6	86
Other					8	0	1x 4/1, 3x 4/60, 1x 4/162, 3x 4/179					7		
Sample B												7	6	86
Other					8	0	1x 4/1, 3x 4/60, 1x 4/162, 3x 4/179					7		
(193) Ferritin	[µg/L]				10							9	9	100
Sample A		180	40	22	10							9	9	100
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (60) Roche		202	12	5,7	5	0	CVPG	203	2,6	24%	154	252	5	
Other					5	0	2x 4/12, 1x 4/162, 1x 6/60, 1x 6/178					4		
Sample B		400	93	23	10							9	9	100
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (60) Roche		455	11	2,4	5	0	CVPG	441	5,2	24%	335	547	5	
Other					5	0	2x 4/12, 1x 4/162, 1x 6/60, 1x 6/178					4		
(321) FSH	[U/L]				8							8	6	75
Sample A												8	8	100
Other					8	0	1x 4/1, 3x 4/12, 3x 4/60, 1x 4/162					8		
Sample B												8	6	75
Other					8	0	1x 4/1, 3x 4/12, 3x 4/60, 1x 4/162					8		
(328) hGH	[mU/L]				4							4	4	100
Sample A												4	4	100
Other					4	0	1x 4/12, 3x 4/29					4		
Sample B												4	4	100
Other					4	0	1x 4/12, 3x 4/29					4		
(329) IGF-1	[µg/L]				4							4	4	100
Sample A												4	4	100
Other					4	0	3x 4/29, 1x 4/60					4		
Sample B												4	4	100
Other					4	0	3x 4/29, 1x 4/60					4		
(325) Insulin	[mU/L]				4							4	4	100
Sample A												4	4	100
Other					4	0	2x 4/60, 2x 4/179					4		
Sample B												4	4	100
Other					4	0	2x 4/60, 2x 4/179					4		
(326) Folate	[nmol/L]				11							11	11	100
Sample A												11	11	100
Other					11	0	1x 4/1, 2x 4/12, 4x 4/60, 1x 4/162, 3x 4/179					11		
Sample B												11	11	100
Other					11	0	1x 4/1, 2x 4/12, 4x 4/60, 1x 4/162, 3x 4/179					11		
(320) LH	[U/L]				8							8	7	88
Sample A												8	7	88
Other					8	0	1x 4/1, 3x 4/12, 3x 4/60, 1x 4/162					8		
Sample B												8	8	100
Other					8	0	1x 4/1, 3x 4/12, 3x 4/60, 1x 4/162					8		
(405) Parathyrin intact (PTH)	[pmol/L]				8							8	8	100
Sample A		1,73	0,12	7	8							8	8	100
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (60) Roche		1,73	0,096	5,6	6	0	CVPG	1,7	0,015	23%	1,3	2,1	6	
Other					2	0	2x 4/12					2		
Sample B		16,3	2,8	17	8							8	8	100
(4) LIA (CLIA, CMIA, ECLIA, LOCI); (60) Roche		15,4	1,5	9,7	6	0	CVPG	14,5	0,13	23%	11,1	17,9	6	

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Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]
							AV	U _{AV}	D _{max}	LL	UL			
Other					2	0	2x 4/12					2		
(322) Prolactin	[mU/L]				8							8	8	100
Sample A												8	8	100
Other					8	0	1x 4/1, 2x 4/12, 2x 4/60, 1x 4/162, 2x 4/179					8		
Sample B												8	8	100
Other					8	0	1x 4/1, 2x 4/12, 2x 4/60, 1x 4/162, 2x 4/179					8		
(390) Renin	[ng/L]				2							2	2	100
Sample A												2	2	100
Other					2	0	2x 4/164					2		
Sample B												2	2	100
Other					2	0	2x 4/164					2		
(394) SHBG	[nmol/L]				6							6	6	100
Sample A												6	6	100
Other					6	0	4x 4/60, 1x 4/162, 1x 4/179					6		
Sample B												6	6	100
Other					6	0	4x 4/60, 1x 4/162, 1x 4/179					6		
(327) Vitamin B₁₂	[pmol/L]				11							11	11	100
Sample A												11	11	100
Other					11	0	1x 4/1, 2x 4/12, 4x 4/60, 1x 4/162, 3x 4/179					11		
Sample B												11	11	100
Other					11	0	1x 4/1, 2x 4/12, 4x 4/60, 1x 4/162, 3x 4/179					11		
(319) Vitamin B₁₂ (active)	[pmol/L]				1							0		
Sample A												0		
Other					1	0	1x 4/60					0		
Sample B												0		
Other					1	0	1x 4/60					0		