

## Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of groups n = 5

## EQA round: BM1/19 - Bone Markers

Dead line: 08.02.2019

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 <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]						Comparability							
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(431) Parathyroid hormone (PTH)</b>					82							75	72	96%
Samples and groups	[pmol/L]													
<b>Sample A</b>		7,30	2,0	27	82							75	73	97%
(1) Abbott		12,6	0,75	6,0	9	0	CVPG	12,6	0,92	23%	9,7	15,5		9
(12) Beckman Coulter		5,09	0,40	7,8	16	0	CVPG	5,09	0,24	23%	3,91	6,27		16
(60) Roche		7,18	0,55	7,7	36	0	CVPG	7,18	0,22	23%	5,52	8,84		36
(179) Siemens (Bayer)		8,77	0,67	7,6	14	0	CVPG	8,77	0,44	23%	6,75	10,8		14
Other					7	0								0
								2x 25, 4x 29, 1x 183						
<b>Sample B</b>		21,5	5,3	25	82							75	72	96%
(1) Abbott		35,9	2,3	6,4	9	0	CVPG	35,9	2,8	23%	27,6	44,2		9
(12) Beckman Coulter		16,0	1,3	8,0	16	0	CVPG	16	0,78	23%	12,3	19,7		16
(60) Roche		21,3	1,2	5,6	36	1	CVPG	21,3	0,49	23%	16,4	26,2		36
(179) Siemens (Bayer)		25,9	2,0	7,8	14	0	CVPG	25,9	1,3	23%	19,9	31,9		14
Other					7	0								0
								2x 25, 4x 29, 1x 183						
<b>(436) Parathyroid hormone (PTH 1-84)</b>					37							37	36	97%
Samples and groups	[pmol/L]													
<b>Sample A</b>		4,09	0,49	12	37							37	37	100%
(60) Roche		4,24	0,31	7,4	30	0	CVPG	4,24	0,14	17%	3,51	4,97		30
(164) DiaSorin		3,33	0,24	7,4	7	0	CVPG	3,33	0,24	17%	2,76	3,9		7
<b>Sample B</b>		12,5	1,0	8,3	37							37	36	97%
(60) Roche		12,7	0,92	7,2	30	0	CVPG	12,7	0,41	17%	10,5	14,9		30
(164) DiaSorin		11,5	0,76	6,6	7	0	CVPG	11,5	0,73	17%	9,54	13,5		7
<b>(432) Collagen telopeptide CTx-beta</b>					87							85	82	96%
Samples and groups	[ng/L]													
<b>Sample A</b>		359	21	5,9	87							85	82	96%
(60) Roche		360	20	5,7	85	1	CVPG	360	5,5	17%	298	422		85
Other					2	0								0
								2x 183						
<b>Sample B</b>		740	47	6,3	87							85	83	98%
(60) Roche		742	45	6,1	85	1	CVPG	742	12	17%	615	869		85
Other					2	0								0
								2x 183						
<b>(433) P1NP</b>					67							66	66	100%
Samples and groups	[µg/L]													
<b>Sample A</b>		28,2	2,1	7,4	67							66	66	100%
(60) Roche		28,3	2,0	7,2	66	0	CVPG	28,3	0,61	20%	22,6	34		66
Other					1	0								0
								1x 183						
<b>Sample B</b>		187	16	8,4	67							66	66	100%
(60) Roche		187	15	8,1	66	0	CVPG	187	4,6	20%	149	225		66
Other					1	0								0
								1x 183						
<b>(434) Osteocalcin</b>					82							77	72	94%
Samples and groups	[µg/L]													
<b>Sample A</b>		17,9	0,94	5,3	82							77	74	96%
(60) Roche		18,1	0,73	4,0	71	0	CVPG	18,1	0,21	13%	15,7	20,5		71
(164) DiaSorin		11,8	0,96	8,2	6	0	CVPG	11,8	1,3	13%	10,2	13,4		6
Other					5	0								0
								1x 24, 4x 29						
<b>Sample B</b>		87,3	5,4	6,1	82							77	73	95%
(60) Roche		88,4	4,0	4,5	71	0	CVPG	88,4	1,2	13%	76,9	99,9		71
(164) DiaSorin		49,9	1,5	3,0	6	0	CVPG	49,9	2,1	13%	43,4	56,4		6
Other					5	0								0
								1x 24, 4x 29						
<b>(435) 25-hydroxyvitamin D</b>					132							124	122	98%
Samples and groups	[nmol/L]													
<b>Sample A</b>		62,0	16	26	132							124	123	99%
(1) Abbott		56,0	2,7	4,8	30	0	CVPG	56	1,2	33%	37,5	74,5		30
(12) Beckman Coulter		165	25	15	13	0	CVPG	165	17	33%	110	220		13
(60) Roche		42,3	5,8	14	15	0	CVPG	42,3	3,7	33%	28,3	56,3		15
(164) DiaSorin		59,6	5,0	8,5	10	0	CVPG	59,6	3,9	33%	39,9	79,3		10
(179) Siemens (Bayer)		48,0	5,8	12	18	0	CVPG	48	3,3	33%	32,1	63,9		18
(256) Roche (2)		72,9	6,1	8,4	38	0	CVPG	72,9	2,4	33%	48,8	97		38
Other					8	0								0
								2x 15, 1x 25, 1x 40, 1x 183, 1x 998, 2x 999						
<b>Sample B</b>		120	28	23	132							124	123	99%

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Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability							
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(435) 25-hydroxyvitamin D</b>					132							124	122	98%
Samples and groups	[nmol/L]													
<b>Sample B</b>		120	28	23	132							124	123	99%
(1) Abbott		115	6,3	5,5	30	0	CVPG	115	2,8	33%	77	153	30	
(12) Beckman Coulter		244	29	12	13	0	CVPG	244	20	33%	163	325	13	
(60) Roche		83,5	9,9	12	15	0	CVPG	83,5	6,3	33%	55,9	112	15	
(164) DiaSorin		112	9,7	8,7	10	0	CVPG	112	7,5	33%	75	149	10	
(179) Siemens (Bayer)		97,6	10	11	18	0	CVPG	97,6	6,0	33%	65,3	130	18	
(256) Roche (2)		138	11	8,0	38	0	CVPG	138	4,4	33%	92,4	184	38	
Other					8	0							0	
								2x 15, 1x 25, 1x 40, 1x 183, 1x 998, 2x 999						

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End of report

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