

Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of groups n = 5

EQA round: BM2/19 - Bone Markers

Dead line: 02.08.2019

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 _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability					Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(431) Parathyroid hormone (PTH)					76							71	70	99%
Samples and groups	[pmol/L]													
Sample A		6,95	1,9	27	76							71	70	99%
(1) Immunochemical meth.; (1) Abbott		12,0	1,4	12	9	0	CVPG	12	1,8	23%	9,24	14,8		9
(1) Immunochemical meth.; (12) Beckman Coulter		4,83	0,33	6,8	15	0	CVPG	4,83	0,21	23%	3,71	5,95		15
(1) Immunochemical meth.; (60) Roche		6,45	0,46	7,1	31	0	CVPG	6,45	0,20	23%	4,96	7,94		31
(1) Immunochemical meth.; (179) Siemens		8,32	0,54	6,5	16	0	CVPG	8,32	0,33	23%	6,4	10,3		16
Other					5	2								0
								1x 1/25, 3x 1/29, 1x 1/183						
Sample B		20,6	5,1	25	76							71	71	100%
(1) Immunochemical meth.; (1) Abbott		35,3	4,8	14	9	0	CVPG	35,3	5,9	23%	27,1	43,5		9
(1) Immunochemical meth.; (12) Beckman Coulter		14,8	1,0	7,0	15	0	CVPG	14,8	0,66	23%	11,3	18,3		15
(1) Immunochemical meth.; (60) Roche		19,8	1,1	5,3	31	0	CVPG	19,8	0,46	23%	15,2	24,4		31
(1) Immunochemical meth.; (179) Siemens		23,9	1,5	6,5	16	0	CVPG	23,9	0,95	23%	18,4	29,4		16
Other					5	0								0
								1x 1/25, 3x 1/29, 1x 1/183						
(436) Parathyroid hormone (PTH 1-84)					39							38	37	97%
Samples and groups	[pmol/L]													
Sample A		4,13	0,49	12	39							38	37	97%
(1) Immunochemical meth.; (60) Roche		4,30	0,25	5,8	31	0	CVPG	4,3	0,11	17%	3,56	5,04		31
(1) Immunochemical meth.; (164) DiaSorin		3,27	0,10	3,2	7	0	CVPG	3,27	0,10	17%	2,71	3,83		7
Other					1	0								0
								1x 1/15						
Sample B		12,1	0,92	7,6	39							38	37	97%
(1) Immunochemical meth.; (60) Roche		12,3	0,74	6,0	31	0	CVPG	12,3	0,32	17%	10,2	14,4		31
(1) Immunochemical meth.; (164) DiaSorin		10,9	0,61	5,6	7	0	CVPG	10,9	0,59	17%	9,04	12,8		7
Other					1	0								0
								1x 1/15						
(432) Collagen telopeptide CTx-beta					83							81	79	98%
Samples and groups	[ng/L]													
Sample A		305	20	6,6	83							81	81	100%
(1) Immunochemical meth.; (60) Roche		306	20	6,4	81	0	CVPG	306	5,4	17%	253	359		81
Other					2	1								0
								2x 1/183						
Sample B		708	47	6,7	83							81	79	98%
(1) Immunochemical meth.; (60) Roche		710	46	6,4	81	0	CVPG	710	12	17%	589	831		81
Other					2	0								0
								2x 1/183						
(433) P1NP					66							65	64	98%
Samples and groups	[µg/L]													
Sample A		30,0	1,9	6,5	66							65	65	100%
(1) Immunochemical meth.; (60) Roche		30,0	1,9	6,5	65	0	CVPG	30	0,59	20%	24	36		65
Other					1	1								0
								1x 99/183						
Sample B		196	17	8,7	66							65	64	98%
(1) Immunochemical meth.; (60) Roche		196	17	8,5	65	0	CVPG	196	5,1	20%	156	236		65
Other					1	0								0
								1x 99/183						
(434) Osteocalcin					77							72	68	94%
Samples and groups	[µg/L]													
Sample A		18,6	1,2	6,3	77							72	68	94%
(1) Immunochemical meth.; (60) Roche		18,8	0,91	4,8	67	0	CVPG	18,8	0,27	13%	16,3	21,3		67
(1) Immunochemical meth.; (164) DiaSorin		13,1	0,15	1,1	5	0	CVPG	13,1	0,42	13%	11,3	14,9		5
Other					5	0								0
								1x 1/24, 4x 1/29						
Sample B		101	6,9	6,8	77							72	69	96%
(1) Immunochemical meth.; (60) Roche		102	5,2	5,1	67	0	CVPG	102	1,6	13%	88,7	116		67
(1) Immunochemical meth.; (164) DiaSorin		62,1	5,1	8,2	5	0	CVPG	62,1	14	13%	54	70,2		5
Other					5	0								0
								1x 1/24, 4x 1/29						

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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}	
(435) 25-hydroxyvitamin D					132							124	122	98%	
Samples and groups	[nmol/L]														
Sample A		67,1	18	28	132							124	122	98%	
(1) Immunochemical meth.; (1) Abbott		60,2	3,8	6,3	31	0	CVPG	60,2	1,7	33%	40,3	80,1	31		
(1) Immunochemical meth.; (12) Beckman Coulter		193	17	8,8	13	0	CVPG	193	12	33%	129	257	13		
(1) Immunochemical meth.; (60) Roche		40,6	4,2	10	12	0	CVPG	40,6	3,0	33%	27,2	54	12		
(1) Immunochemical meth.; (164) DiaSorin		64,3	8,1	13	12	0	CVPG	64,3	5,7	33%	43	85,6	12		
(1) Immunochemical meth.; (179) Siemens		57,6	6,8	12	21	0	CVPG	57,6	3,6	33%	38,5	76,7	21		
(1) Immunochemical meth.; (256) Roche (2)		80,0	6,9	8,6	35	0	CVPG	80	2,9	33%	53,6	107	35		
Other					8	0							0		
								2x 1/15, 1x 1/40, 1x 1/149, 1x 1/183, 1x 2/998, 1x 2/999, 1x 99/1							
Sample B		154	35	23	132							124	122	98%	
(1) Immunochemical meth.; (1) Abbott		150	11	7,6	31	0	CVPG	150	5,0	33%	100	200	31		
(1) Immunochemical meth.; (12) Beckman Coulter		329	33	10	13	0	CVPG	329	22	33%	220	438	13		
(1) Immunochemical meth.; (60) Roche		98,6	8,7	8,8	12	0	CVPG	98,6	6,1	33%	66	132	12		
(1) Immunochemical meth.; (164) DiaSorin		134	13	9,8	12	0	CVPG	134	9,3	33%	89,7	179	12		
(1) Immunochemical meth.; (179) Siemens		138	13	9,5	21	0	CVPG	138	7,0	33%	92,4	184	21		
(1) Immunochemical meth.; (256) Roche (2)		175	15	8,7	35	0	CVPG	175	6,3	33%	117	233	35		
Other					8	0							0		
								2x 1/15, 1x 1/40, 1x 1/149, 1x 1/183, 1x 2/998, 1x 2/999, 1x 99/1							

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End of report

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