

## EQA round: TDM1/23 - Therapeutic Drugs

Setup: groups - manufacturer of kit; minimal size of the groups n = 5

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

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					Traceability							
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL
<b>Set 1</b>																			
<b>(81) Digoxin</b>	[µg/L]				130							130	126	97					0
<b>Sample A1</b>		1,92	0,24	12	130		CVP	1,92	0,051	30%	1,34	2,5	130	126	97				0
(1) Abbott		1,7	0,18	11	41	0							41						
(12) Beckman Coulter		2,06	0,19	9,2	13	0							13						
(58) Beckman Coulter (AU)		1,98	0,16	8,2	8	0							8						
(60) Roche		1,97	0,16	7,9	44	0							44						
(162) Siemens (Atellica)		2,08	0,15	7,4	10	0							10						
(179) Siemens		2,12	0,12	5,6	7	0							7						
Other					7	0							7						
								2x 29, 1x 75, 4x 149											
<b>Sample B1</b>		1,61	0,21	13	130		CVP	1,61	0,045	30%	1,12	2,1	130	127	98				0
(1) Abbott		1,41	0,14	10	41	0							41						
(12) Beckman Coulter		1,73	0,15	8,9	13	0							13						
(58) Beckman Coulter (AU)		1,67	0,14	8,5	8	0							8						
(60) Roche		1,66	0,11	6,5	44	0							44						
(162) Siemens (Atellica)		1,76	0,16	9,1	10	0							10						
(179) Siemens		1,87	0,052	2,8	7	0							7						
Other					7	0							7						
								2x 29, 1x 75, 4x 149											
<b>(87) Ethosuximide</b>	[mg/L]				6							6	6	100					0
<b>Sample A1</b>												6	6	100					0
Other					6	0						6							
								2x 998, 4x 999											
<b>Sample B1</b>												6	6	100					0
Other					6	0						6							
								2x 998, 4x 999											
<b>(84) Phenobarbital</b>	[mg/L]				23							23	20	87					0
<b>Sample A1</b>		29,8	2,6	8,8	23		CVP	29,8	1,3	20%	23,8	35,8	23	21	91				0
(1) Abbott		29,4	2,6	9	10	0							10						
(60) Roche		30,8	0,74	2,4	5	0							5						
Other					8	0							8						
								1x 58, 1x 75, 1x 118, 1x 162, 1x 179, 1x 998, 2x 999											
<b>Sample B1</b>		11,3	0,98	8,6	23		CVP	11,3	0,5	20%	9,04	13,6	23	21	91				0
(1) Abbott		11,3	1,1	9,4	10	0							10						
(60) Roche		11,7	0,67	5,7	5	0							5						
Other					8	0							8						
								1x 58, 1x 75, 1x 118, 1x 162, 1x 179, 1x 998, 2x 999											





