

## EQA round: GP1/24 - Detection of Monoclonal Components

Deadline: 1.3.2024

Setup: all data

RoM = robust average

SD = standard deviation

CV = coefficient of variation

N<sub>tot</sub> = total number of the resultsN<sub>out</sub> = number of the results removed before calculation

AV = assigned value

CVP = consensus of all participants

U<sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)D<sub>max</sub> = acceptable difference

LL = lower limit

UL = upper limit

N<sub>eva</sub> = number of the results assessedN<sub>suc</sub> = number of successful resultsS<sub>rel</sub> = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	Comparability			N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
									D <sub>max</sub>	LL	UL				
<b>Set 1 (plasma)</b>															
(247) <b>Gammopathies (quantity 1)</b> <b>(plasma)</b>	[g/L]				92							92	81	88	
<b>Sample A1</b>												92	90	98	
All results		47,1	5	11	92	0	CVP	47,1	1,3	33%	31,5	62,7	92		
<b>Sample B1</b>												92	81	88	
All results		28,6	5	17	92	2	CVP	28,6	1,3	33%	19,1	38,1	92		
(279) <b>Total protein (plasma)</b>	[g/L]				89							89	88	99	
<b>Sample A1</b>												89	89	100	
All results		76,7	1,8	2,4	89	0	CVP	76,7	0,48	8%	70,5	82,9	89		
<b>Sample B1</b>												89	88	99	
All results		68,7	1,5	2,3	89	1	CVP	68,7	0,4	8%	63,2	74,2	89		
(314) <b>FLC kappa (plasma)</b>	[mg/L]				58							58	52	90	
<b>Sample A1</b>												58	57	98	
All results		10	1,1	11	58	0	CVP	10	0,35	50%	5	15	58		
<b>Sample B1</b>												58	53	91	
All results		5930	1200	20	58	3	CVP	5930	380	50%	2960	8900	58		
(315) <b>FLC lambda (plasma)</b>	[mg/L]				58							58	50	86	
<b>Sample A1</b>												58	55	95	
All results		23,3	2,4	10	58	0	CVP	23,3	0,76	50%	11,6	35	58		
<b>Sample B1</b>												58	53	91	
All results		3,49	1,3	36	58	0	CVP	3,49	0,4	±3	0,49	6,49	58		
(318) <b>Index kappa/lambda</b>	[-]				57							57	43	75	
<b>Sample A1</b>												57	48	84	
All results		0,428	0,07	16	57	0	CVP	0,428	0,023	32%	0,291	0,565	57		
<b>Sample B1</b>												57	50	88	
All results		1830	720	39	57	4	CVP	1830	240	78%	402	3260	57		
<b>Set 2 (urine)</b>															
(545) <b>Gammopathies (quantity 1)</b> <b>(urine)</b>	[g/L]				27							27	20	74	
<b>Sample A2</b>												27	23	85	
All results		0,368	0,18	49	27	0	CVP	0,368	0,085	66%	0,125	0,611	27		
<b>Sample B2</b>												27	23	85	
All results		0,099	0,046	47	27	2	CVP	0,099	0,023	66%	0,033	0,165	27		
(546) <b>Gammopathies (quantity 2)</b> <b>(urine)</b>	[g/L]				7							7	3	43	
<b>Sample A2</b>												7	4	57	
All results		0,474	0,26	54	7	2	CVP	0,474	0,73	66%	0,161	0,787	7		
<b>Sample B2</b>												7	5	71	
All results		0,075	0,036	48	7	0	CVP	0,076	0,035	66%	0,025	0,127	7		
(547) <b>Gammopathies (quantity 3)</b> <b>(urine)</b>	[g/L]				17							17	2	12	
<b>Sample A2</b>												17	13	76	
All results		0,142	0,06	42	17	2	CVP	0,142	0,038	66%	0,048	0,236	17		
<b>Sample B2</b>												17	4	24	
All results		0,046	0,046	99	17	6	CVP	0,046	0,034	66%	0,015	0,077	17		
(550) <b>Total protein (urine)</b>	[g/L]				52							52	52	100	
<b>Sample A2</b>												52	52	100	
All results		1,17	0,27	23	52	0	CVP	1,17	0,093	46%	0,631	1,71	52		
<b>Sample B2</b>												52	52	100	
All results		0,276	0,064	23	52	0	CVP	0,276	0,022	46%	0,149	0,403	52		