

EQA round: VVV1/25 - Maternal Diagnostic Screening (Triple Test)

Deadline: 18.4.2025

Setup: groups - R (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			
Set 1														
(238) free β-hCG	[U/L]				8							8	7	88
Sample A1		43,1	5,4	13	8							8	7	88
(60) Roche		43,1	5,4	13	7	0	CVPG	41,6	0,74	15%	35,3	47,9	7	
Other					1	0							1	
							1x 24							
Sample B1		42,6	4,8	11	8							8	7	88
(60) Roche		42,6	4,8	11	7	0	CVPG	41,5	0,8	15%	35,2	47,8	7	
Other					1	0							1	
							1x 24							
(239) PAPP-A	[U/L]				10							10	10	100
Sample A1		1,25	0,085	6,8	10							10	10	100
(60) Roche		1,24	0,12	9,6	8	0	CVPG	1,27	0,024	15%	1,07	1,47	8	
Other					2	0							2	
							2x 24							
Sample B1		0,432	0,021	4,8	10							10	10	100
(60) Roche		0,44	0,015	3,4	8	0	CVPG	0,445	0,007	15%	0,378	0,512	8	
Other					2	0							2	
							2x 24							
Set 2														
(370) AFP	[μg/L]				10							8	8	100
Sample A2		36,3	3	8,2	10							8	8	100
(60) Roche		37,9	3	8	5	0	CVPG	36,6	1,2	20%	29,2	44	5	
Other					5	0							3	
							1x 1, 3x 12, 1x 179							
Sample B2		8,76	0,74	8,4	10							8	8	100
(60) Roche		8,92	0,44	5	5	0	CVPG	8,64	0,25	20%	6,91	10,4	5	
Other					5	0							3	
							1x 1, 3x 12, 1x 179							
(373) hCG	[kU/L]				10							7	7	100
Sample A2		30,6	3,5	12	10							7	7	100
(60) Roche		27,6	1,9	7	5	0	CVPG	27,4	0,96	18%	22,4	32,4	5	
Other					5	0							2	
							1x 1, 2x 12, 1x 36, 1x 179							
Sample B2		90,5	13	15	10							7	7	100
(60) Roche		82,2	8,4	10	5	0	CVPG	80,2	3,7	18%	65,7	94,7	5	
Other					5	0							2	
							1x 1, 2x 12, 1x 36, 1x 179							
(375) Estriol unconjug.	[nmol/L]				10							10	7	70
Sample A2		2,25	1,4	64	10							10	8	80
(29) Siemens (Immulite)		1,4	0,3	21	6	0	CVPG	1,4	0,23	33%	0,938	1,87	6	
Other					4	0							4	
							4x 12							
Sample B2		0,287	0,15	53	10							10	9	90
(29) Siemens (Immulite)		0,24	0	0	6	0	CVPG	0,24	±0,264	0	0,504		6	
Other					4	0							4	
							4x 12							
1. trimester														
(240) free β-hCG (MoM)	[MoM]				7							7	7	100
Mother X1		0,855	0,23	27	7							7	7	100
(60) Roche		0,91	0,15	16	6	0	CVPG	0,889	0,045	33%	0,595	1,19	6	
Other					1	0							1	
							1x 24							
Mother Y1		1,16	0,34	29	7							7	7	100
(60) Roche		1,24	0,22	18	6	0	CVPG	1,21	0,081	33%	0,81	1,61	6	
Other					1	0							1	
							1x 24							
(241) PAPP-A (MoM)	[MoM]				9							9	8	89
Mother X1		0,665	0,037	5,6	9							9	8	89
(60) Roche		0,655	0,052	7,9	7	0	CVPG	0,682	0,043	33%	0,456	0,908	7	
Other					2	0							2	
							2x 24							
Mother Y1		0,12	0,015	12	9							9	8	89
(60) Roche		0,125	0,007	5,9	7	0	CVPG	0,129	0,007	33%	0,086	0,172	7	

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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 24					2		
2. trimester														
(380) AFP (MoM)	[MoM]				10							8	7	88
Mother X2		1,02	0,14	14	10							8	7	88
(60) Roche		1,02	0,15	15	5	0	CVPG 0,963	0,07	23%	0,741	1,19	5		
Other					5	0	1x 1, 3x 12, 1x 179					3		
Mother Y2		0,249	0,043	17	10							8	7	88
(60) Roche		0,24	0,03	12	5	0	CVPG 0,227	0,014	23%	0,174	0,28	5		
Other					5	0	1x 1, 3x 12, 1x 179					3		
(382) hCG (MoM)	[MoM]				10							7	7	100
Mother X2		0,937	0,14	15	10							7	7	100
(60) Roche		0,87	0,015	1,7	5	0	CVPG 0,976	0,1	40%	0,585	1,37	5		
Other					5	0	1x 1, 2x 12, 1x 36, 1x 179					2		
Mother Y2		2,74	0,36	13	10							7	7	100
(60) Roche		2,59	0,1	4	5	0	CVPG 2,84	0,29	40%	1,7	3,98	5		
Other					5	0	1x 1, 2x 12, 1x 36, 1x 179					2		
(384) Estriol unconjug. (MoM)	[MoM]				10							10	7	70
Mother X2		1,09	0,33	30	10							10	8	80
(29) Siemens (Immulite)		1,06	0,18	17	6	0	CVPG 0,93	0,28	40%	0,558	1,31	6		
Other					4	0	4x 12					4		
Mother Y2		0,159	0,056	35	10							10	8	80
(29) Siemens (Immulite)		0,165	0,037	22	6	0	CVPG 0,16	0,034	40%	0,096	0,224	6		
Other					4	0	4x 12					4		