

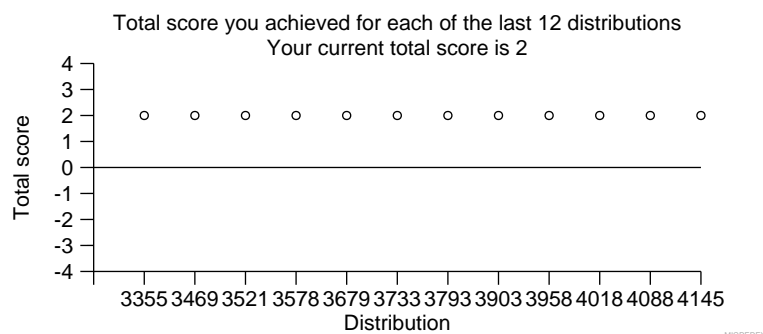
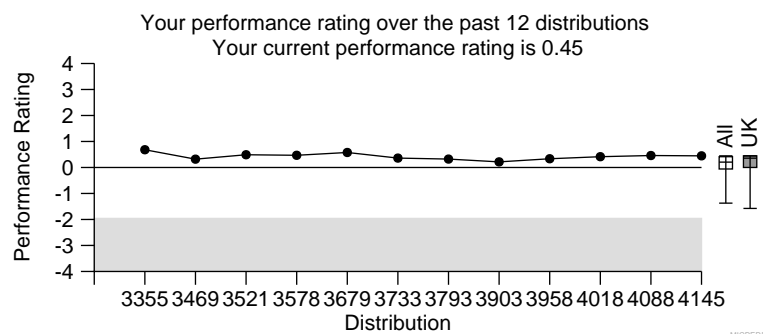
Intended Result	Your Report	Your Score
Specimen 3970 Median concentration 6.06 log copies/mL	6.05 log copies/mL	
Specimen 3971 Median concentration 5.03 log copies/mL	5.09 log copies/mL	
Average of the median differences in conc. between specimens <b>3970</b> and <b>3971</b> is 0.96 log copies/mL	Difference in conc. is 0.96 log copies/mL	2

**Cumulative score information**

Total number of specimens sent to you for **UK NEQAS for CMV DNA quantification** over the last 3 distributions is 6  
 For these distributions specimen numbers 3539 3797 3970 have been analysed and scored.  
 Number of reports analysed 3  
 Number of specimens reported as not examined (not scored) 0  
 Number of specimens received too late for analysis (not scored) 0  
 Number of specimens for which no report was received (not scored) 0  
 Your cumulative score for these specimens was 6 out of a possible total of 6  
 The mean score calculated from the reports returned by **UK** laboratories was 5.12 with a standard error of 1.98.

**Performance rating**

Your performance rating for **UK NEQAS for CMV DNA quantification** (i.e. the number of standard errors by which your cumulative score lies above or below the mean) for **UK** laboratories is 0.45. A performance rating of more than 1.96 standard errors below the mean indicates possible poor performance. Please note your performance rating may alter if other participants' results are amended. No score penalty is incurred for non return of reports. However non return of results may be used as a measure of poor performance.



**Comments:** A total of 109 sets of specimen were distributed for testing with 98 participants responding within the specified period. As the majority of participants are still reporting in copies/mL, this report presents the results in copies/mL. The average of the median differences in concentration reported between the specimen pair was 0.96 log copies/mL with 83/95 (87.4%) participants reporting results within 0.5 log copies/mL. Of the outlying results; five participants reported a result within 0.5 to 0.75 log copies/mL, two participants reported a result within 0.75 to 1.0 log copies/mL. Three participants reported a result over 1.0 log copies/mL.

The table on the last page of this report provides a summary of the 26 results provided in IU/mL and/or where the conversion factor was supplied.

A very interesting point to note is that the conversion factors provided by participants varied in spite of using same methods with same batch numbers. We have checked some kit inserts and found out that some conversion factors quoted are different to the kit inserts. We strongly advise our participants to check the kit inserts carefully before applying any conversion factors. Applying the wrong conversion factor means the wrong results are reported.

**Turn around time:** Time taken to report your results was 0-days. This is provided for your own use and does not form part of your performance assessment.

**Acknowledgements:** We thank colleagues at the PHE-NIS Birmingham and the Royal Infirmary of Edinburgh for their kind assistance with pre-distribution tests.

**Enquiries:** Pre-distribution test results are available should you experience a technical failure and wish to discuss the results. Written enquiries about this distribution should be addressed to Elli Elenoglou at the email address below.

For repeat specimens please order using the web form or e-mail [organiser@ukneqasmicro.org.uk](mailto:organiser@ukneqasmicro.org.uk) stating your laboratory identification number, the distribution name, distribution number and specimen numbers.

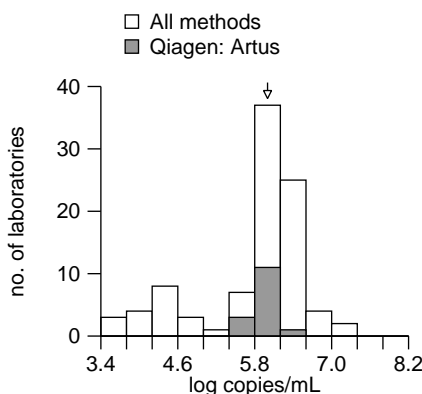
Report authorised by: Dr Sanjiv Rughooputh, Director.



A pair of specimens of freeze dried plasma was dispatched with a request for the quantification of CMV DNA. Specimen 3970 and 3971 diluted 1:133 and 1:1380 respectively in CMV antibody positive plasma.

**Specimen : 3970**

	n (UK)	range	median	5%-95%
All methods	94 (26)	3.70-7.19	6.06	4.08-6.67
Abbott Real-Time	7 (3)	5.07-6.27	6.14	5.33-6.24
Altona: RealStar	3	5.53-6.48	6.28	5.60-6.46
Argene	6 (1)	6.07-6.55	6.46	6.14-6.53
ELITech: ELITe MGB	12 (1)	5.95-6.84	6.20	5.95-6.59
FTD	3 (3)	6.07-6.46	6.22	6.08-6.44
Nanogen AD: R-T Alert	2	5.82-6.24		
Qiagen: Artus	15 (4)	5.49-6.28	5.97	5.55-6.20
Real-Time Multiplex	8 (7)	5.70-7.19	6.23	5.76-7.16
Real-Time Single target	11 (4)	5.43-6.98	6.22	5.64-6.84
Roche : Cobas TaqMan	18 (1)	3.70-4.63	4.30	3.75-4.63
Roche: Cobas 6800/8800	3	5.61-5.89	5.80	5.63-5.88
Unspecified	4	6.18-6.66	6.21	6.18-6.59



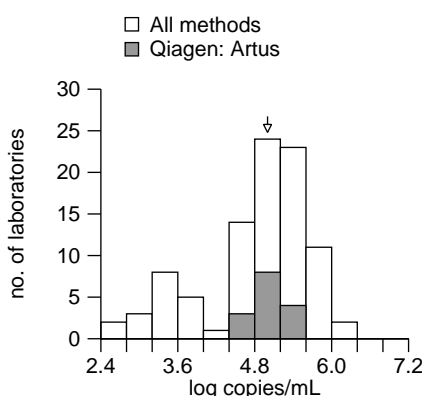
Your result :  
6.05 log copies/mL

Method median concentration :  
5.97 log copies/mL

Median concentration :  
6.06 log copies/mL

**Specimen : 3971**

	n (UK)	range	median	5%-95%
All methods	93 (26)	2.48-6.15	5.03	3.18-5.73
Abbott Real-Time	7 (3)	4.61-5.38	5.01	4.67-5.34
Altona: RealStar	3	4.37-5.71	5.50	4.49-5.69
Argene	6 (1)	5.26-5.77	5.58	5.27-5.75
ELITech: ELITe MGB	12 (1)	4.48-5.65	5.25	4.74-5.62
FTD	3 (3)	4.77-5.66	5.17	4.81-5.61
Nanogen AD: R-T Alert	2	4.60-5.35		
Qiagen: Artus	15 (4)	4.53-5.54	4.99	4.69-5.54
Real-Time Multiplex	8 (7)	4.68-6.15	5.08	4.72-5.95
Real-Time Single target	11 (4)	4.73-6.02	5.11	4.74-5.90
Roche : Cobas TaqMan	18 (1)	2.48-3.85	3.27	2.63-3.80
Roche: Cobas 6800/8800	2	4.61-4.64		
Unspecified	4	5.17-5.79	5.51	5.19-5.78



Your result :  
5.09 log copies/mL

Method median concentration :  
4.99 log copies/mL

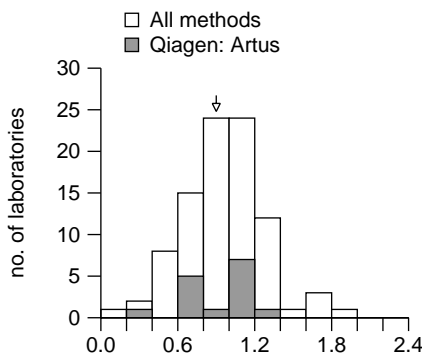
Median concentration :  
5.03 log copies/mL

**Intended result : 0.46 to 1.46 log copies/mL**

(average median of the reported differences in concentration between specimen 3970 and 3971 +/- 0.5 log copies/mL, uncertainty of the median 0.047)

Difference in concentration between specimen 3970 and 3971 expressed in log copies/mL :

	n (UK)	range	av. median	5%-95%
All methods	93 (26)	-0.09-2.43	0.96	0.48-1.53
Abbott Real-Time	7 (3)	0.07-1.31	1.12	0.31-1.31
Altona: RealStar	3	0.57-1.15	0.98	0.61-1.14
Argene	6 (1)	0.54-1.19	0.78	0.58-1.18
ELITech: ELITe MGB	12 (1)	0.54-1.48	0.99	0.55-1.35
FTD	3 (3)	0.80-1.29	1.05	0.83-1.27
Nanogen AD: R-T Alert	2	0.90-1.22		
Qiagen: Artus	15 (4)	0.32-1.24	1.01	0.56-1.19
Real-Time Multiplex	8 (7)	0.50-2.43	0.96	0.63-2.15
Real-Time Single target	11 (4)	0.67-1.35	0.87	0.68-1.28
Roche : Cobas TaqMan	18 (1)	-0.09-1.98	0.93	0.20-1.78
Roche: Cobas 6800/8800	2	0.97-1.28		
Unspecified	4	0.47-1.04	0.88	0.53-1.02



Your result :  
Difference in conc. is 0.96 log copies/mL

Your score : 2

Overall results	UK	All	Score
Median			
+/- 0.5 log	24	83	2
+/- >0.5 to 0.75 log	1	5	1
+/- >0.75 to 1.0 log	0	2	0
+/- >1.0 log	1	3	-1
Partial result	0	1	1
Two incorrect	1	1	-2
Total	27	95	
%Correct	88.9	87.4	



**Comments on distribution 4145**

Summary of the results reported in IU/mL or where a conversion factor was provided.

Amplification method	Batch	Conversion factor	3970	3971	Log difference
Abbott Real-Time	477346	Not reported	6.18	5.06	1.12
Abbott Real-Time	476956	1.56	6.15	4.84	1.31
Abbott Real-Time	475685	1.56	6.14	5.24	0.9
Abbott Real-Time	Not reported	Not reported	5.07	5.01	0.06
Beckman: DxN VERIS	723637	1.72	6.08	5.1	0.98
Roche : Cobas TaqMan	X10962	Not reported	4.07	3.24	0.83
Roche : Cobas TaqMan	X10962	1.1	3.96	3.71	0.25
Roche : Cobas TaqMan	X10962	Not reported	4.23	3.66	0.57
Roche : Cobas TaqMan	X10962	1.1	4.63	3.55	1.08
Roche : Cobas TaqMan	X57417	Not reported	4.56	3.3	1.26
Roche : Cobas TaqMan	X10962	1.09	4.59	3.2	1.39
Roche : Cobas TaqMan	X10962	1.1	4.6	2.85	1.75
Roche: Cobas 6800/8800	Y00031	34.5	5.61	4.64	0.97
Roche: Cobas 6800/8800	Not reported	Not reported	5.89	4.61	1.28
Roche: Cobas 6800/8800	Not reported	Not reported	5.8	NE	
Real-Time Single target	Not reported	7.5	5.84	4.75	1.09
Real-Time Single target	Not reported	1.1	5.43	4.73	0.7
Real-Time Multiplex	Not reported	Not reported	7.1	4.68	2.42
Qiagen: Artus	157024116	1.64	5.94	5.28	0.66
FTD	17-64-06	Not reported	6.07	4.77	1.3
FTD	ACE17-64-07	0.71	6.22	5.17	1.05
Altona: RealStar	0210-K-1706	1	6.48	5.5	0.98
Altona: RealStar	0210-K-1707	1	6.28	5.71	0.57
Altona: RealStar	0210-K-01702	2	5.53	4.37	1.16
ELITech: ELITe MGB	Not reported	Not reported	5.95	4.48	1.47
Sentosa SX CMV Quant	8570	1.64	6	4.71	1.29
<b>median Log IU/mL</b>			<b>5.865</b>	<b>4.71</b>	<b>1.08</b>

