

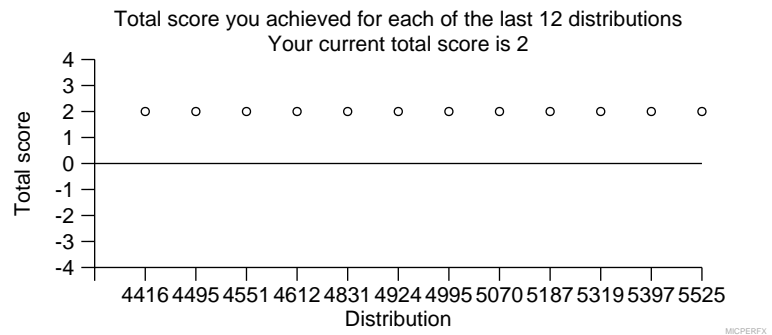
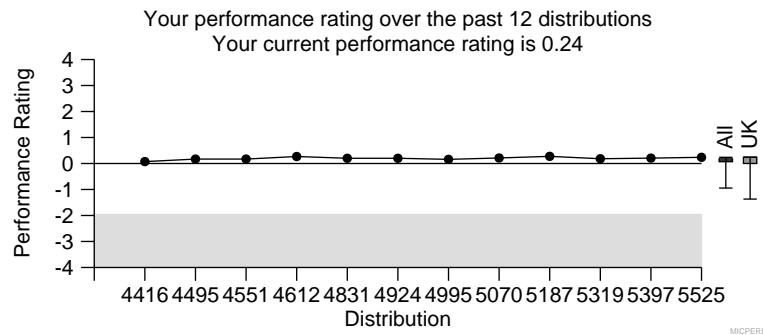
Intended Result	Your Report	Your Score
Specimen 8284 Median concentration 3.95 log copies/mL	5.31 log copies/mL	
Specimen 8285 Median concentration 3.12 log copies/mL	4.70 log copies/mL	
Average of the median log differences between specimens <b>8284</b> and <b>8285</b> is 0.77 log copies/mL	Calculated log difference is 0.61 log copies/mL	2

**Cumulative score information**  
Total number of specimens sent to you for **UK NEQAS for EBV DNA quantification** over the last 3 distributions is 6  
For these distributions specimen numbers 7642 7883 8284 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 5.66 with a standard error of 1.43.

**Performance rating**  
Your performance rating for **UK NEQAS for EBV DNA quantification** (i.e. the number of standard errors by which your cumulative score lies above or below the mean) for **UK** laboratories is 0.24.  
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 75 sets of specimens were distributed for testing with 67 participants returning results within the specified period. For this specimen pair 97.0% of participants reported within 0.5 log copies/mL of the median difference reported by all participants.

Incorrect results were not associated with any particular kit. One participant (Real-Time Multiplex PCR) reported a result within >0.5 to 0.75 log copies/mL of the median, one participant (ELITech: ELITe MGB) reported a result more than 0.75 log copies/mL of the median.

**Please see pages 3-4 for further comments about this distribution.**  
**As the majority of participants report in copies/mL, this report presents the results in copies/mL. A table is included on page 4 to show the results reported in IU/mL.**

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

**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 Dr Sanjiv Rughooputh at [organiser@ukneqasmicro.org.uk](mailto:organiser@ukneqasmicro.org.uk).

For repeat specimens in case of an EQA failure please request using the web form at <https://ukneqasmicro.org.uk/participant-info/order-repeat-specimens/>.

**Acknowledgements:** We thank colleagues from the Sheffield Teaching Hospitals NHS Foundation Trust for their kind assistance with pre-distribution testing.

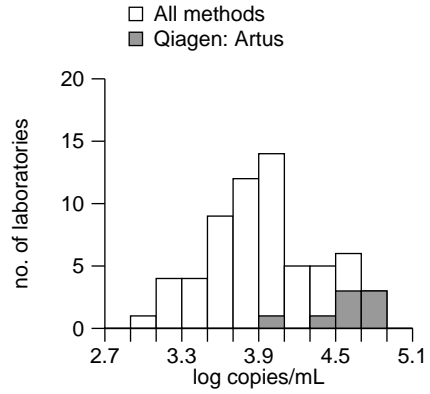
**Report authorised by:** [Dr Sanjiv Rughooputh, Scheme Organiser.](#)



A pair of specimens of freeze dried plasma was dispatched with a request for the quantification of EBV DNA (viral load assay). Specimens 8284 and 8285 consisted of VCA IgG and EBNA IgG positive plasma containing  $1.0 \times 10^4$  and  $1.4 \times 10^3$  Namalwa cells per mL. Median reported EBV DNA viral loads are 3.95 and 3.12 log copies/mL, respectively, with a median reported difference in concentration of 0.77 log copies/mL.

**Specimen : 8284**

	n (UK)	range	median	5%-95%
All methods	66 (21)	2.92-11.82	3.95	3.29-4.77
Abbott: Alinity m	5 (2)	3.14-4.07	3.85	3.17-4.05
Altona: RealStar	3 (2)	3.96-4.69	4.45	4.01-4.67
Argene Biosoft	3 (1)	3.66-3.93	3.91	3.68-3.93
Cobas 6800/8800	7 (3)	3.29-5.47	3.55	3.36-5.14
ELITe InGenius	5	3.56-4.51	3.77	3.58-4.42
ELITech: ELITe MGB	13 (2)	2.92-4.54	3.74	3.24-4.39
NeuMoDx EBV Quant	2 (1)	3.89-3.92		
Qiagen: Artus	9 (3)	4.00-5.31	4.65	4.18-5.10
Real-Time Multiplex	3 (3)	3.74-4.31	4.17	3.78-4.30
Real-Time Single target	4 (2)	3.12-3.88	3.67	3.18-3.88
Sacace Real-TM	2	4.12-4.46		
Vela Diagnostica	2 (2)	3.65-3.90		



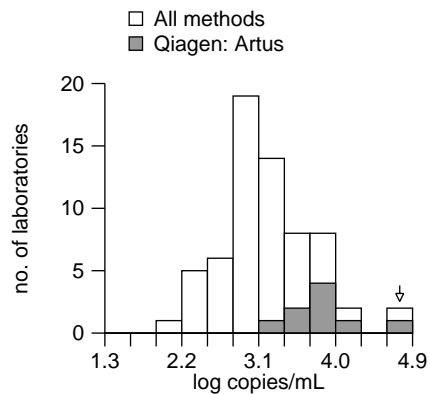
Your result :  
5.31 log copies/mL

Method median concentration :  
4.65 log copies/mL

Median concentration :  
3.95 log copies/mL

**Specimen : 8285**

	n (UK)	range	median	5%-95%
All methods	66 (21)	1.98-10.80	3.12	2.44-4.20
Abbott: Alinity m	5 (2)	2.42-3.16	3.10	2.42-3.15
Altona: RealStar	3 (2)	3.08-3.85	3.49	3.13-3.82
Argene Biosoft	3 (1)	3.16-3.21	3.20	3.16-3.21
Cobas 6800/8800	7 (3)	2.60-4.76	2.90	2.62-4.45
ELITe InGenius	5	2.72-3.54	2.86	2.72-3.46
ELITech: ELITe MGB	13 (2)	1.98-3.82	2.96	2.27-3.74
NeuMoDx EBV Quant	2 (1)	3.01-3.27		
Qiagen: Artus	9 (3)	3.35-4.70	3.86	3.44-4.51
Real-Time Multiplex	3 (3)	2.89-4.10	3.59	2.96-4.05
Real-Time Single target	4 (2)	2.41-3.07	2.86	2.48-3.04
Sacace Real-TM	2	3.31-3.73		
Vela Diagnostica	2 (2)	2.83-3.03		



Your result :  
4.70 log copies/mL

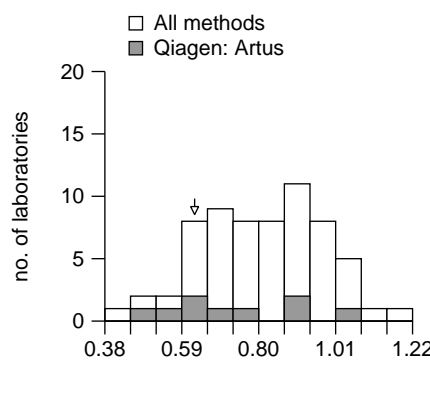
Method median concentration :  
3.86 log copies/mL

Median concentration :  
3.12 log copies/mL

**Intended result** : 0.27 to 1.27 log copies/mL  
(average median of the reported differences in concentration between specimen 8284 and 8285 +/- 0.5 log copies/mL, uncertainty of the median 0.034)

Difference in concentration between specimen 8284 and 8285 expressed in log copies/mL :

	n (UK)	range	av. median	5%-95%
All methods	66 (21)	-0.23-1.20	0.77	0.46-1.05
Abbott: Alinity m	5 (2)	0.72-0.95	0.83	0.72-0.93
Altona: RealStar	3 (2)	0.84-0.96	0.88	0.84-0.95
Argene Biosoft	3 (1)	0.46-0.77	0.70	0.48-0.76
Cobas 6800/8800	7 (3)	0.65-0.90	0.66	0.65-0.86
ELITe InGenius	5	0.83-0.97	0.96	0.84-0.96
ELITech: ELITe MGB	13 (2)	-0.23-1.06	0.81	0.31-1.02
NeuMoDx EBV Quant	2 (1)	0.65-0.88		
Qiagen Artus	9 (3)	0.48-1.05	0.69	0.52-1.00
Real Time Multiplex	3 (3)	0.21-0.85	0.58	0.24-0.82
Real Time Single Target	4 (2)	0.42-1.03	0.85	0.46-1.03
Sacace Real-TM	2	0.74-0.82		
Vela Diagnostica	2 (2)	0.62-1.07		



Your result :  
Difference in conc. is 0.61 log copies/mL

Your score : 2

Overall results	UK	All	Score
Median			
+/- 0.5 log	19	64	2
+/- >0.5 to 0.75 log	1	1	1
+/- >0.75 log	1	1	-1
Total	21	66	
%Correct	90.5	97.0	



### Comments on distribution 5525

Overall performance in this distribution was excellent with 97.0% of participants reporting the intended results. This performance was an improvement of 4.5% over previous distribution 5397, where the performance rate was 92.5%.

Return rate for this distribution was good, with 89.3% of participants returning their results within the specified period. Compared to the previous distribution (5397) where 93.2% of participants returned results, this is a decline of 3.9% in the participation rate.

Participants who did not obtain the intended results are requested to investigate and report the plausible root cause by completing an incident review form (IRF) online within 30 days of this report being published.

Non return of results without a valid reason is considered as poor performance and should also be reported in a similar manner.

IRFs are taken into considerations when poor performance analysis is carried out for the National Quality Assurance Advisory Panel (NQAAP). IRFs can be completed on the following link: <https://ukneqasmicro.org.uk/incident-review-form/>



### Summary of results reported in IU/mL

Amplification method	8284 log IU/mL	8285 log IU/mL	log difference
Abbott: m2000sp	3.59	2.48	1.12
Abbott Real-Time	3.52	2.50	1.02
Abbott: Alinity m	4.06	3.34	0.72
Abbott: Alinity m	4.07	3.12	0.95
Abbott: Alinity m	3.99	3.16	0.83
Abbott: Alinity m	3.85	3.10	0.75
Cobas 6800/8800	3.29	2.64	0.65
Cobas 6800/8800	3.52	2.76	0.76
Cobas 6800/8800	3.47	2.76	0.71
Cobas 6800/8800	3.51	2.86	0.65
Cobas 6800/8800	3.55	2.90	0.65
Cobas 6800/8800	3.50	2.60	0.90
Cobas 6800/8800	3.54	2.87	0.66
Real-Time Single target	3.49	3.07	0.42
Real-Time Multiplex	4.17	3.59	0.58
Real-Time Multiplex	3.74	2.89	0.85
Qiagen: Artus	3.65	2.76	0.89
Qiagen: Artus	3.86	3.10	0.76
NeuMoDx EBV Quant	3.69	3.04	0.65
NeuMoDx EBV Quant	3.88	3.00	0.88
Altona: RealStar	4.30	3.46	0.84
Altona: RealStar	4.45	3.49	0.96
Altona: RealStar	4.17	3.29	0.88
ELITech: ELITe MGB	3.99	3.00	0.99
ELITech: ELITe MGB	3.74	2.68	1.06
ELITech: ELITe MGB	3.96	3.07	0.89
ELITe InGenius	4.16	3.20	0.97
Vela Diagnostica	3.35	2.73	0.62
Vela Diagnostica	3.68	2.61	1.07
<b>median log difference</b>			0.81

**End of report**

