

Intended Result	Your Report	Your Score
Specimen 4172 Median concentration 4.35 log copies/mL	4.68 log copies/mL	
Specimen 4173 Median concentration 3.75 log copies/mL	4.11 log copies/mL	
Average of the median log differences between specimens 4172 and 4173 is 0.57 log copies/mL	Calculated log difference is 0.57 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 3807 3980 4172 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 5.41 with a standard error of 1.63.

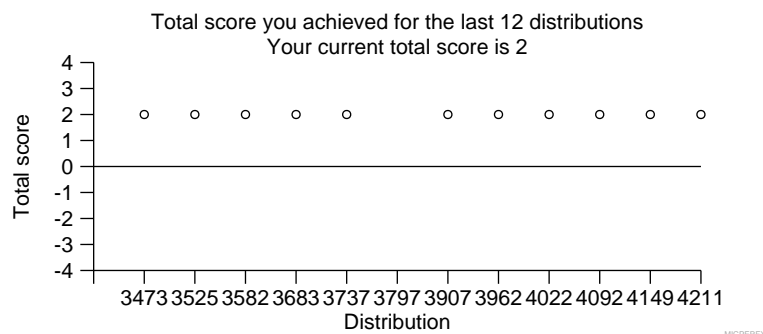
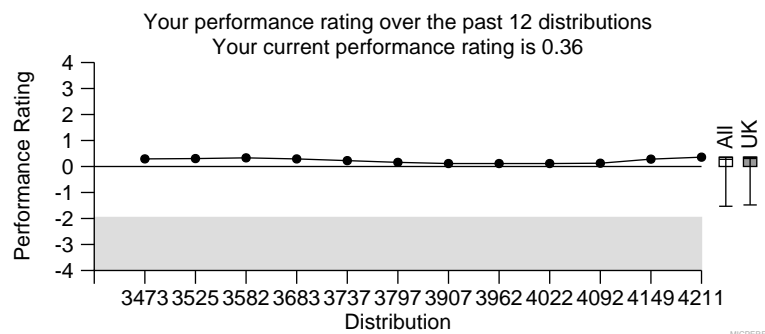
Performance rating

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 0.36.

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 64 sets of specimens were distributed for testing with 59 participants returning results within the specified period. Performance for this specimen pair was very good with 94.8% (55/58) of the participants reporting to within 0.5 log copies/mL from the median difference reported by all participants.

Incorrect results were not associated with any one particular kit. One participant reported a result within 0.5 to 0.75 log copies/mL (Real-Time, multiplex). One participant reported a result over 0.75 log copies/mL (Qiagen Artus). As the majority of participants report in copies/mL, this report presents the results in copies/mL. A table is included on page 3 to show the results reported in IU/mL and/ or where a conversion factor was applied.

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 Stuart Whitmore or Habib Seyedzadeh at the email address below.

For repeat specimens please request using the web form or e-mail organiser@ukneqasmicro.org.uk stating your laboratory identification number, the distribution name, distribution number, specimen number and reason for request.

Acknowledgements: We thank colleagues from the Microbiology Laboratory at the Northern General Hospital, Sheffield for their kind assistance with pre-distribution tests.

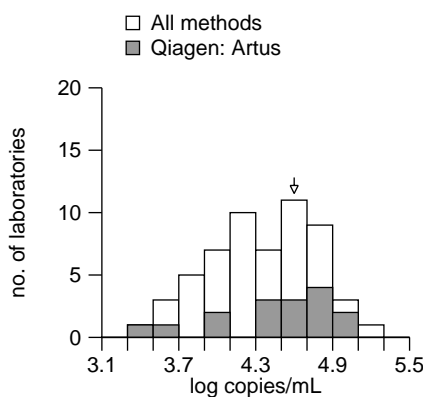
Report authorised by: Dr Sanjiv Rughooputh, Director



A freeze dried plasma specimen pair was dispatched with a request for the quantification of EBV DNA (viral load assay). Specimen 4172 and 4173 consisted of VCA IgG and EBNA IgG positive plasma with 7.5×10^3 Namalwa cells per mL for specimen 4172 and 1.8×10^3 for specimen 4173. EBV DNA viral loads were estimated at 21500 (4.33 log) and 5375 (3.73 log) copies/mL respectively with an expected difference of 0.6 log copies/mL.

Specimen : 4172

	n (UK)	range	median	5%-95%
All methods	58 (22)	2.04-5.30	4.35	3.63-4.93
AB Analytica	1	4.74-4.74		
Altona: RealStar	2	4.55-4.78		
Argene Biosoft	4	4.14-4.40	4.30	4.16-4.39
ELITech: ELITe MGB	11 (1)	3.58-4.25	3.94	3.66-4.22
Focus: Simplexa	1	3.69-3.69		
FTD	3 (3)	4.34-4.74	4.64	4.37-4.73
Nanogen AD: R-T Alert	1	3.73-3.73		
Qiagen: Artus	17 (6)	2.04-4.98	4.54	3.20-4.93
Real-Time Multiplex	7 (7)	4.15-4.67	4.30	4.17-4.66
Real-Time Single target	8 (5)	3.71-5.30	4.68	3.86-5.21
Sacace Real-TM	1	4.52-4.52		
Unspecified	2	4.02-4.65		



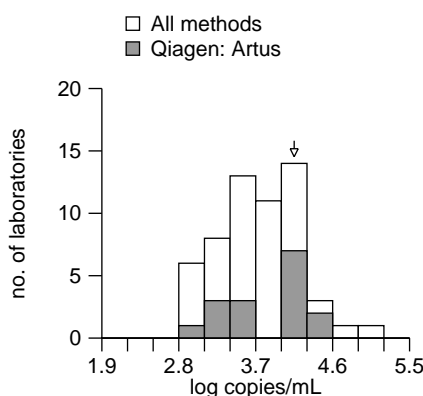
Your result :
4.68 log copies/mL

Method median concentration :
4.54 log copies/mL

Median concentration :
4.35 log copies/mL

Specimen : 4173

	n (UK)	range	median	5%-95%
All methods	57 (22)	2.83-5.04	3.75	2.96-4.39
AB Analytica	1	3.99-3.99		
Altona: RealStar	2	3.96-4.16		
Argene Biosoft	4	3.56-3.80	3.69	3.56-3.79
ELITech: ELITe MGB	11 (1)	2.92-3.55	3.36	2.94-3.55
Focus: Simplexa	1	3.07-3.07		
FTD	3 (3)	3.91-4.23	4.19	3.93-4.23
Nanogen AD: R-T Alert	1	2.99-2.99		
Qiagen: Artus	16 (6)	2.89-4.36	4.02	3.26-4.34
Real-Time Multiplex	7 (7)	3.45-4.89	3.79	3.50-4.66
Real-Time Single target	8 (5)	2.83-5.04	3.99	3.08-4.84
Sacace Real-TM	1	3.85-3.85		
Unspecified	2	3.42-4.15		



Your result :
4.11 log copies/mL

Method median concentration :
4.02 log copies/mL

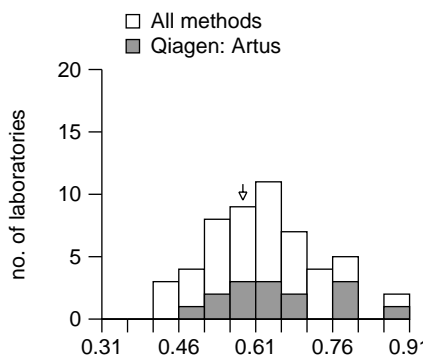
Median concentration :
3.75 log copies/mL

Intended result : 0.07 to 1.07 log copies/mL

(average median of the reported differences in concentration between specimen 4172 and 4173 +/- 0.5 log copies/mL, uncertainty of the median 0.029)

Difference in concentration between specimen 4172 and 4173 expressed in log copies/mL :

	n (UK)	range	av. median	5%-95%
All methods	57 (22)	-0.21-1.08	0.57	0.40-0.81
AB Analytica	1	0.76-0.76		
Altona: RealStar	2	0.59-0.62		
Argene Biosoft	4	0.52-0.72	0.58	0.53-0.70
ELITech: ELITe MGB	11 (1)	0.55-0.77	0.65	0.57-0.77
Focus: Simplexa	1	0.63-0.63		
FTD	3 (3)	0.43-0.51	0.45	0.43-0.50
Nanogen AD: R-T Alert	1	0.74-0.74		
Qiagen Artus	16 (6)	0.26-0.87	0.61	0.44-0.81
Real Time Multiplex	7 (7)	-0.21-1.08	0.52	-0.02-0.93
Real Time Single Target	8 (5)	0.26-0.87	0.61	0.36-0.83
Sacace Real-TM	1	0.67-0.67		
Unspecified	2	0.50-0.60		



Your result :
Difference in conc. is 0.57 log copies/mL

Your score : 2

Overall results	UK	All	Score
Median			
+/- 0.5 log	20	55	2
+/- >0.5 to 0.75 log	1	1	1
+/- >0.75 log	1	1	-1

One incorrect	0	1	0
Total	22	58	
%Correct	90.9	94.8	



Comments on distribution 4211

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

Amplification method	Batch	Conversion factor	4172 Log IU/mL	4173 Log IU/mL	log difference
Real-Time Single target	Not reported	Not reported	4.73	4.11	0.62
Real-Time Multiplex	Not reported	Not reported	4.24	3.79	0.45
Qiagen: Artus	157035321	Not reported	3.99	3.38	0.61
Qiagen: Artus	Not reported	Not reported	3.49	2.89	0.60
FTD	ACE17-64-16	Not reported	4.34	3.91	0.43
FTD	17-64-11	Not reported	4.64	4.19	0.45
Median log IU/mL			4.29	3.85	0.53

