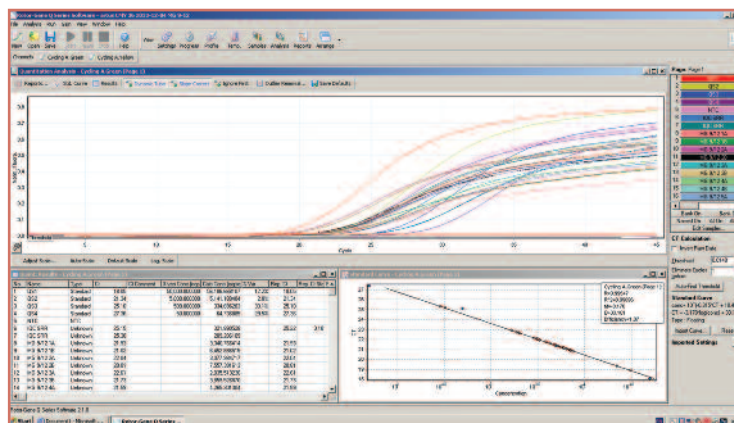


# Molecular Schemes

These schemes are suitable for laboratories using molecular methods for the detection of microorganisms.

Molecular schemes are qualitative and/or quantitative and where relevant include genotyping.

UK NEQAS for Microbiology, operated by Public Health England, is a UKAS accredited Proficiency Testing Provider No. 4715. Please see the schedule for details.



Scheme	Examinations	Sample format	No. of distributions per year	No. of samples per distribution	Scoring
<a href="#">CMV DNA quantification</a>	CMV DNA quantification	Freeze dried human plasma	3	2	Reported log difference in viral load between the specimen pair
<a href="#">EBV DNA quantification</a>	EBV DNA quantification	Freeze dried human plasma	3	2	Reported log difference in viral load between the specimen pair
<a href="#">HBV DNA quantification</a>	HBV DNA quantification	Freeze dried human serum	2	4	Reported log difference in viral load between the specimen pairs
<a href="#">HCV RNA detection</a>	HCV RNA qualitative detection, quantification and genotyping	Freeze dried human plasma	3	2	Based separately on the relevant markers reported: Qualitative: presence or absence Quantitative detection: Reported log difference in viral load between the specimen pair Genotyping: correct identification
<a href="#">HIV-1 RNA quantification</a>	HIV-1 RNA quantification	Freeze dried human plasma	3	2	Reported log difference in viral load between the specimen pair
<a href="#">Molecular detection and resistance testing of Mycobacteria</a>	Direct and post culture detection of <i>Mycobacteria</i> and rifampicin susceptibility testing Genotyping results are also collated & presented for in-house comparisons	Freeze dried simulated sputum	3	2	Presence or absence of <i>Mycobacteria</i> and rifampicin resistance
<a href="#">Molecular detection of Chlamydia trachomatis &amp; Neisseria gonorrhoeae</a>	Detection of <i>Chlamydia trachomatis</i> & <i>Neisseria gonorrhoeae</i>	Simulated liquid urine and vaginal swab	3	4	Presence or absence of <i>Chlamydia trachomatis</i> & <i>Neisseria gonorrhoeae</i>
<a href="#">Molecular detection of HEV RNA</a>	HEV RNA qualitative detection (quantitative/genotype results can be reported but currently not scored)	Freeze dried human plasma	3	2	Presence or absence of HEV RNA
<a href="#">Molecular detection of HPV</a>	Detecting of HPV high risk genotypes in endocervical specimens and genotyping	Endocervical liquid based cytology specimens	3	4	Presence or absence of HPV high risk genotypes
<a href="#">Molecular detection of respiratory viruses</a>	Detection of respiratory viruses: influenza viruses, adenoviruses, respiratory syncytial viruses, rhinoviruses, bocavirus, enteroviruses, metapneumovirus, parechoviruses, coronaviruses and parainfluenza viruses	Freeze dried simulated nasopharyngeal aspirate	3	4	Presence or absence of Flu A, Flu B or RSV in the first 3 samples Presence or absence of the other viruses listed in sample 4
<a href="#">Molecular detection of viruses in CSF</a>	Detection of HSV-1 DNA, HSV-2 DNA, VZV DNA and Enteroviruses RNA	Freeze dried simulated cerebrospinal fluid	2	6	Presence or absence of HSV-1 DNA, HSV-2 DNA, VZV DNA and Enteroviruses RNA
<a href="#">MRSA screening</a>	Detection of MRSA by culture and/or molecular methods	Simulated freeze dried specimen	4	2	Separate score applied to the different methods (culture/molecular) based on presence or absence
<a href="#">Viral gastroenteritis</a>	Detection of Norovirus antigen, Rotavirus antigen and Adenovirus 40, 41 antigen. NB specimens are also suitable for assays detecting nucleic acid for these three viruses	Freeze dried human faeces	2	4	Presence or absence of Norovirus, Rotavirus and Adenovirus 40,41 antigen