

# Serology Schemes

**These schemes are suited for clinical diagnostic laboratories that undertake tests for microbial antigen or antibody.**

**The schemes cover a wide variety of serological tests for viruses such as HIV and Hepatitis B, bacteria such as syphilis, and parasites such as toxoplasma. Some of the serological schemes, such as Blood borne viruses or Blood donor screen, are designed for laboratories for blood donor screening whilst others assist with diagnostic testing such as the Acute Hepatitis screen that covers detection of IgM antibodies to HAV, CMV and EBV.**

**Schemes consist of either single marker or multiple**

**markers, some including the use of confirmatory tests.**

**General information on scoring: specimens are characterised using a range of assays and are scored when pre-distribution results concur. Participating laboratories are then scored on their ability to obtain the consensus pre-distribution result. Specifics or exceptions for individual schemes are indicated in the Scoring column in the table below.**

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

**[Click here for Parasitology serology schemes.](#)**

Scheme	Examinations	Sample format	No. of distributions per year	No. of samples per distribution	Scoring
<a href="#">Anti-HBs detection</a>	Determining levels of anti-HBs antibody	Liquid human serum	3	6	Qualitative detection at greater or less than 10 mIU/mL
<a href="#">Blood donor Screen</a>	HBV surface antigen HBc antibody HCV antigen/antibody HIV antigen/antibody HTLV I/II antibody Treponemal antibody	Liquid human serum	6	3	Positive or negative for the relevant marker
<a href="#">Blood borne viruses</a>	HBV surface antigen HCV antigen/antibody HIV antigen/antibody	Liquid human serum	6	3	Positive or negative for the relevant marker
<a href="#">Cryptococcal antigen detection</a>	Presence or absence of CrAg	Liquid human serum, bronchial lavage and/or simulated CSF	3	2	Positive or negative for CrAg
<a href="#">Diagnostic serology: acute hepatitis</a>	HAV IgM CMV IgM EBV IgM and IgG including heterophile antibodies	Liquid human serum	2	3	Positive or negative for the relevant IgM marker with EBV infection scored on the interpretation of the results for the combination of tests performed by the laboratory
<a href="#">Fungal Biomarkers</a>	Detection of the galactomannan antigen	Liquid human serum, bronchial lavage and/or simulated CSF	3	2	Presence or absence of the galactomannan antigen
<a href="#">Hepatitis B serology</a>	Hepatitis B surface antigen Hepatitis B core antibody Hepatitis B core IgM Hepatitis B e antigen Hepatitis B e antibody	Liquid human serum	3	6	Positive or negative for the relevant marker
<a href="#">Hepatitis C serology</a>	HCV antibody HCV antigen	Liquid human serum	3	6	Positive or negative for the relevant marker
<a href="#">Hepatitis E serology</a>	HEV IgM and IgG	Liquid human serum	3	4	Positive or negative for the relevant marker
<a href="#">HIV serology</a>	HIV 1/2 antigen/antibody (screening and confirmatory tests)	Liquid human serum	3	6	Positive or negative for the relevant marker
<a href="#">Immunity screen</a>	HAV IgG or total Ab CMV IgG VZV IgG	Liquid human serum	2	6	Positive or negative for the relevant marker
<a href="#">Measles and mumps IgG serology</a>	Measles IgG Mumps IgG	Liquid human serum	2	4	Positive or negative for the relevant marker
<a href="#">Parvovirus B19 and Rubella serology</a>	Parvovirus B19 IgM & IgG Rubella IgM & IgG	Liquid human serum	2	4	Positive or negative for the relevant marker
<a href="#">Rubella IgG serology</a>	Determining levels of Rubella IgG	Liquid human serum	2	6	Qualitative detection at greater or less than 10 IU/mL
<a href="#">Syphilis serology</a>	<i>Treponema pallidum</i> antibody (agglutination tests, FTA, Immunoassays, Immunoblot and Reagin)	Liquid human serum	2	6	Positive or negative for the relevant marker. Reagin not scored if negative for Reagin but syphilis serology positive