

Sample Requirements:

Biofire Film Array Torch Analyser:

The BioFire RP2.1 is a real-time, nested multiplexed polymerase chain reaction test designed to simultaneously provide qualitative detection and identification of 22 different viruses and bacteria associated with respiratory tract infection from a single nasopharyngeal swab (NPS) specimen obtained from individuals suspected of respiratory tract infections, including COVID-19.

Cepheid GeneXpert Xpress Testing:

The Xpert Xpress SARS-CoV-2 test is a rapid, RT-PCR test intended for the qualitative detection of nucleic acid from the SARS-CoV-2 in upper respiratory specimens (such as nasopharyngeal, oropharyngeal, nasal, or mid-turbinate swab and/or nasal wash/ aspirate) collected from individuals suspected of COVID-19.

The Xpert Xpress SARS-CoV-2/Flu/RSV test is a multiplexed real-time RT-PCR test intended for the simultaneous, qualitative detection and differentiation of SARS-CoV-2, influenza A, influenza B, and respiratory syncytial virus (RSV) viral RNA in either nasopharyngeal swab, nasal swab or nasal wash/aspirate specimens collected from individuals suspected of respiratory viral infection.

Essential Services Sample Requirements

Document Reference: LI-ESL-BRI-SampleRequirements

Investigation	Sample Type	Container	Pre-analytical Storage	Post-analytical Storage	Notes
22 Respiratory Panel Testing including: Adenovirus, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Human Metapneumovirus, Human Rhinovirus/Enterovirus, Influenza A/H1, Influenza A/H1-2009, Influenza A/H3, Influenza B, Middle East Respiratory Syndrome Coronavirus (MERS-CoV), Parainfluenza Virus 1, Parainfluenza Virus 2, Parainfluenza Virus 3, Parainfluenza Virus 4, Respiratory Syncytial Virus (RSV), Bordetella parapertussis, Bordetella pertussis, Chlamydia pneumoniae and Mycoplasma pneumoniae on the Biofire Film Array Torch analyser using the Biofire Respiratory Panel 2.1+ Assay Kit.	Nasopharyngeal swab (NPS) collected according to standard technique and immediately placed in up to 3mL of transport media or saline.	MWE Medical Wire Sigma Virocult Virus Transport Medium 1ml Copan UTM RT MINI 1ml transport medium for viruses Green Lids	Specimens should be tested with the Biofire RP2.1 as soon as possible. If storage is required, specimens can be held: At room temperature for up to 4 hours (15-25°C). Refrigerated for up to 3 days (2-8°C). Frozen ($\leq -15^{\circ}\text{C}$ or $\leq -70^{\circ}\text{C}$) (for up to 30 days).	Sample are stored in the cold room for seven days after testing, samples identified as positive for Covid-19, Influenza A, B or Mycoplasma Pneumoniae are referred to UKHSA based at Southmead Hospital for further investigations	BioFire testing is conducted in-house for paediatric patients, while samples from adult patients are sent to Southmead for analysis.
Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) tested on the Cepheid GeneXpert using the Xpert Xpress SARS-CoV-2 Assay Kit.	The nasopharyngeal, oropharyngeal, nasal, or mid-turbinate swab specimen and/or nasal wash/aspirate specimen is collected and placed into a viral transport tube.	MWE Medical Wire Sigma Virocult Virus Transport Medium 1ml Copan UTM RT MINI 1ml transport medium for viruses Green Lids	Samples can be stored for up to 8 hours at room temperature (15-30°C) or up to 7 days if stored 2-8°C.	Sample are stored in the cold room for seven days after testing, samples identified as positive for Covid-19 are referred to UKHSA based at Southmead Hospital for further genotyping.	In-house SARS-CoV-2 testing is available for urgent samples for all patients.

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Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A, Influenza B and RSV tested on the Cepheid GeneXpert using the Xpert Xpress SARS-CoV-2, Influenza A/B and RSV Plus Assay Kit.	The nasopharyngeal, oropharynxes, nasal or mid-turbinate swab specimen and/or nasal wash/aspirate specimen is collected and placed into a viral transport tube.	MWE Medical Wire Sigma Virocult Virus Transport Medium 1ml Copan UTM RT MINI 1ml transport medium for viruses Green Lids	Samples can be stored for up to 8 hours at room temperature (15-30°C) or up to 7 days if stored 2-8°C.	Sample are stored in the cold room for seven days after testing, samples identified as positive for Covid-19, Influenza A or B are referred to UKHSA based at Southmead Hospital for genotyping.	In-house SARS-CoV-2, Influenza and RSV testing is available for urgent samples doing winter pressure periods and out of season for specialised service testing (e.g. oncology patients) and by agreement with Infection Control team/clinical virologist.
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