


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS MEDICAL</p> <p>8197</p> <p>Accredited to ISO 15189:2022</p>	<p>UK Health Security Agency, an executive agency of the Department of Health and Social Care</p> <p>Issue No: 020 Issue date: 14 November 2025</p>	
	<p>Bacteriology Reference Department 61 Colindale Avenue London NW9 5EQ</p>	<p>Contact: Anna Garrido Tel: +44 (0)208 3276155 E-Mail: anna.garrido@ukhsa.gov.uk Website: https://www.gov.uk/government/organisations/uk-health-security-agency</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Local contact</p>		
<p>Bacteriology Reference Department 61 Colindale Avenue London NW9 5EQ</p>	Respiratory and Vaccine Preventable Bacteria Reference Unit	RVPBRU
	Gastrointestinal Bacteria Reference Unit	GBRU
	Sexually Transmitted Infections Reference Laboratory	STIRL
	Antimicrobial Resistance and Healthcare Associated Infections Reference Unit	AMRHAI-ARMS
		AMRHAI-SSRS
	AMRHAI-OppPath	
	AMRHAI-BIDS	



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated</p> <p>Pre-isolated Culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u></p> <p><i>Streptococcus pneumoniae</i> confirmation of identification and capsular typing</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>DNA extraction: Nucleic acid extraction using Qiagen QIAasympyony</p> <p>BRD0017 - Nucleic acid extraction using the Qiagen Qiasympyony</p> <p>BRD0430 - Laboratory methods for <i>Streptococcus pneumoniae</i> using Whole Genome Sequence analysis</p> <p>Whole Genome Sequencing (WGS) performed by UKHSA Colindale Sequencing Laboratory (8727)</p> <p>Data analysis performed by UKHSA Bioinformatics UKAS: 10742: Automated analysis, in-house bioinformatics pipeline hosted on UKHSA informatics infrastructure and MLST type designations referenced from PubMLST international database</p> <p>Serotyping: Slide agglutination commercial serotyping antisera (SSI Diagnostica)</p> <p>BRD0095 - Serotyping of <i>Streptococcus pneumoniae</i> using slide agglutination</p>	RVPBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Confirmation of identification and toxigenicity testing of potentially toxigenic <i>Corynebacteria spp</i></p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>DNA extraction: In-house manual boil prep method</p> <p>Multiplex PCR: Rotor-Gene Q real-time thermal cycler, Qiagen Multiplex PCR mastermix.</p> <p>BRD0121 - Detection of toxin gene bearing and non-toxin gene bearing <i>C. diphtheriae</i>, <i>C. ulcerans</i> and <i>C. pseudotuberculosis</i> using a Real-Time PCR assay</p> <p>Confirmation of ID and toxin expression Culture & Biochemical Commercial: biochemical profiling, In-house modified Elek test</p> <p>BRD0076 - Identification of Potentially Toxigenic <i>Corynebacteria</i> and Toxigenicity Testing</p>	RVPBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Confirmation of identification and typing of <i>Legionella</i></p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Culture: Selective Media BRD0072 - Processing of Culture (isolates) Specimens for Legionella</p> <p>Real-Time PCR: DNA extraction (in-house manual), Rotor-Gene Q real-time thermal cyclers</p> <p>Sequence-based typing: Block-based PCR, VeritiThermal cyclers, ThermoFisher E-gel, Gel Doc Sanger sequencing carried out by UKHSA Central Sequencing Laboratory(8727)</p> <p>Data analysis carried out by UKHSA Bioinformatics (10742): Bioinformatics and BioNumerics</p> <p>BRD0089 - Sequence-based typing (SBT) of Legionella pneumophila</p>	RVPBRU
<p>Clinical samples (e.g. swabs, urine, Tissue samples)</p>	<p>Detection of LGV genovars of Chlamydia trachomatis</p>	<p>BRD0350 Sample reception and DNA extraction using QiaSymphony extractor. BRD0533 Real-time PCR for the detection of LGV genovars of Chlamydia trachomatis from clinical specimens on the QuantStudio platform</p>	STIRL



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Residual specimen from unprocessed NAAT swab, dry swab, urine or extracted DNA</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Molecular detection of <i>Treponema pallidum</i></p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Nucleic acid extraction: using the Qiagen QIAasymphony DSP Virus/Pathogen Midi kit and the Qiagen QIAasymphony</p> <p>BRD0350-Sample reception and DNA extraction procedures in STIRL</p> <p>BRD0017 - Nucleic Acid Extraction using the Qiagen QIAasymphony</p> <p>Real-time PCR and Sanger Sequencing using QIAasymphony and QuantStudio 5</p> <p>BRD0531- Real-Time PCR Assay for The Detection of <i>Treponema pallidum</i> In Clinical Specimens on the Quantstudio Platform</p>	<p>STIRL</p>
<p>Pre-isolated Culture</p>	<p><i>Bordetella pertussis</i> and <i>parapertussis</i> identification and serotyping of <i>B. pertussis</i></p>	<p>Culture: Selective media</p> <p>Phenotypic characterisation and serotyping methods: commercial reagents (NIBSC, Becton Dickinson)</p> <p>BRD0094 - Identification of <i>B. pertussis</i> and <i>B. parapertussis</i> by Phenotypic Characterisation and Fimbrial Serotyping of <i>B. pertussis</i> isolates</p>	<p>RVPBRU</p>



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HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)	<u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)	Documented in-house procedures with manufacturer's instructions	
Pre-isolated Culture	<i>Haemophilus</i> species identification and capsular typing of <i>H. influenzae</i>	Culture: Selective media Phenotypic characterisation and serotyping using commercial reagents (Mast, Pro-lab) MALDI-TOF or 16S sequencing provided by AMRHAI if required. BRD0099 - Procedures for processing and ID of <i>H. influenzae</i> isolates and β -Lactamase Production, BRD0100 - Serotyping of <i>H. influenzae</i>	RVPBRU
Pre-isolated Culture	<i>Haemophilus</i> species identification and capsular typing of <i>H. influenzae</i> (cont'd)	DNA extraction: commercial reagents (Instagene resin, BioRad), heat blocks BRD0197 - DNA extraction from bacteria using the InstaGene matrix (Bio-Rad) Block-based PCR using Veriti Thermal Cycler, Invitrogen PCR Mastermix, Invitrogen E-gel, Syngene Gel Doc System. BRD0103 - Confirmation and Identification of <i>H. Influenzae</i> Species and Serotype by PCR	RVPBRU



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HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)	<u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)	Documented in-house procedures with manufacturer's instructions	
Serum	Serum antibodies for diphtheria toxin	Tissue culture (Vero Cell Toxin Neutralisation Assay) BRD0054 - Vero Cell Assay for the Determination of Diphtheria Antitoxin in Serum Samples	RVPBRU
Serum	Serum Antibodies for Tetanus toxoid	Enzyme Immunoassay VaccZyme™ Anti-Tetanus Toxoid IgG, incubator, EIA plate washer, plate reader BRD0057 - EIA for anti-tetanus Antibody in Human Sera	RVPBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Serum, oral fluid</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Anti-pertussis toxin IgG</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Enzyme Immunoassay:</p> <p>Automated serum assay: DS2 robotic analyser and commercial reagents (Clin-Tech Ltd)</p> <p>BRD0119 - In-House ELISA for <i>B. pertussis</i> Toxin (PT) IgG Antibody in Human Sera Using 'DRY STRIPS' Using the DYNEX DS2 Robotic System</p> <p>Manual serum or oral fluid assay: Incubator, EIA plate washer, plate reader</p> <p>BRD0116 - ELISA (Mk3) to Detect Anti-pertussis Toxin IgG Antibody in Oral Fluid Using "Dry Strips" BRD0120 - EIA For <i>B. pertussis</i> Toxin (Pt) IgG Antibody In Human Sera Using 'Dry Strips' – Manual Method</p>	RVPBRU



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HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)	<u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control (cont'd)</u>	Documented in-house procedures with manufacturer's instructions	
Urine	Confirmatory testing for <i>L.pneumophila</i> urinary antigen	Enzyme Immunoassay Commercial kits Binax EIA, EIA plate washer, EIA plate reader BRD0067 - Binax EIA Legionella Urinary Antigen Kit	RVPBRU
Respiratory specimens (Sputa, Bronchoalveolar lavage, Nasopharyngeal aspirate, Cerebrospinal fluid, blood, wound aspirate, synovial fluid, lung tissue)	<i>Mycoplasma/Ureaplasma</i> detection and identification	Culture: Commercial media (Mycoplasma Experience), microscope DNA extraction: KingFisher DUO extractor, Qiagen Rotor Gene Q thermal cyclor BRD0492 - Operation of ThermoFisher Scientific KingFisher DUO Prime (KDP) Real-Time PCR and Sequencing: BRD0342 – Detection of <i>Mycoplasma hominis</i> , <i>Ureaplasma parvum</i> and <i>U. urealyticum</i> by Real Time PCR using the Rotor-Gene Q BRD0365 - qPCR for the detection of <i>Mycoplasma pneumoniae</i> and GFP Amplification Control BRD0115 - PCR and Sequence Detection of Known Macrolide Resistance Markers in <i>Mycoplasma pneumoniae</i> Sanger sequencing carried out by Colindale Sequencing Laboratory (8727), UKHSA. Data analysis: Bioinformatics and BioNumerics	RVPBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Respiratory specimens (Sputa, Bronchoalveolar lavage, Nasopharyngeal aspirate)</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p><i>L. pneumophila</i> and species detection, identification and genotyping</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Culture: Commercial selective media</p> <p>BRD0065 - Processing of clinical specimens for Legionella</p> <p>DNA extraction & PCR: KingFisher DUO extractor, Qiagen Rotor Gene Q Thermal Cyclor</p> <p>BRD0492 - Operation of ThermoFisher Scientific KingFisher DUO Prime (KDP) BRD0086 - <i>Legionella pneumophila</i> 3plex qPCR (Rotor-Gene Q)</p> <p>BRD0104 - Detection of Legionella Species DNA By Real Time PCR Using the Rotor-Gene Q</p> <p>Sequence-based typing: DNA extraction (in-house manual), Block-based PCR, VeritiThermal cyclor, Invitrogen E-gel, Gel Doc)</p> <p>Sanger sequencing carried out by Colindale Sequencing Laboratory (8727), UKHSA. Data analysis: Bioinformatics and BioNumerics.</p> <p>BRD0088 - Nested Sequence-based typing (SBT) of <i>Legionella pneumophila</i></p>	RVPBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Respiratory specimens e.g. Sputum, BAL, NPA, lung, pericardial/pleural fluid, throat swabs and tracheal aspirate</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Detection of <i>C. pneumoniae</i> and <i>C. psittaci/abortus</i> DNA</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>DNA extraction: BRD0492 - Operation of ThermoFisher Scientific KingFisher DUO Prime (KDP)</p> <p>Real-Time PCR: In-house PCR assay KingFisher DUO extractor, Qiagen Rotor Gene Q thermal cyclers</p> <p>BRD0235 – Use of Rotor-Gene</p> <p>BRD0491 – Detection of <i>Chlamydomphila pneumoniae</i> and <i>Chlamydomphila psittaci/abortus</i> by RT-PCR using the Rotor-Gene</p>	RVPBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture and specimens (faeces, tissue and environmental)</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Identification of <i>C. botulinum</i></p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Culture: BRD0042 - Isolation and Detection of <i>C. botulinum</i> and <i>C. tetani</i> from Clinical Specimens, Pure Cultures, Food, Water and Environment Samples and Animal Feed</p> <p>DNA extraction BRD0264 - Rapid DNA Extraction from Bacterial Colonies using MicroLYSIS reagent. BRD0408 - Extraction of Clostridial DNA from broths using InstaGene matrix</p> <p>Real-time PCR: using Applied Biosystems 7500 fast real time, QuantStudio Real-time PCR BRD0297 - Detection of <i>C. botulinum</i> and <i>C. tetani</i> neurotoxin genes by Real-time PCR</p>	GBRU
<p>Serum, faeces, blood</p>	<p>Preparation of extracts for bioassay for detection of <i>C. botulinum</i> neurotoxin by associated laboratory for public health purposes'</p>	<p>Preparation of extracts for Bioassay BRD0321 - The preparation of extracts from clinical and food samples for the detection of <i>Clostridium botulinum</i> neurotoxin</p>	GBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture, Tissue, wound swabs</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Isolation and identification of <i>C. tetani</i></p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Culture: BRD0042-Isolation and Detection of <i>C. botulinum</i> and <i>C. tetani</i> from Clinical Specimens, Pure Cultures, Food, Water and Environment Samples and Animal Feed</p> <p>DNA extraction Manual/Commercial BRD0264 - Rapid DNA Extraction from Bacterial Colonies using MicroLYSIS reagent BRD0408 - Extraction of Clostridial DNA from broths using InstaGene matrix</p> <p>Real-time PCR using Applied Biosystems 7500 fast real time, QuantStudio Real-time PCR BRD0297 - Detection of <i>C. botulinum</i> and <i>C. tetani</i> neurotoxin genes by Real-time PCR</p>	GBRU



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Pre-isolated Culture	Identification of <i>C. perfringens</i> (cont'd.)	BRD0236 - Fluorescent amplified fragment length polymorphism (FAFLP) analysis of <i>C. perfringens</i> and <i>B. cereus</i> BRD0498 - Bioinformatic analysis of Fluorescent amplified fragment length polymorphism for <i>B. cereus</i> and <i>C. perfringens</i>	GBRU
Pre-isolated Culture	Listeria Identification and typing	Culture: BRD0391 - Plating out and processing incoming cultures of <i>Bacillus</i> sp, <i>Clostridium perfringens</i> , <i>Listeria</i> sp. and <i>Campylobacter</i> sp DNA Extraction Nucleic acid extraction using Qiagen QIAasympfony. BRD0230 - Extraction of DNA from Gram-positive bacteria and Gram-negative Enterobacteriaceae and submission for Whole Genome Sequencing (WGS) Whole Genome Sequencing (WGS) performed by Colindale Sequencing Laboratory (8727), UKHSA.	GBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Data derived from above provided by UKAS: 10742</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Listeria Identification and typing (cont'd.)</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Data analysis: automated analysis using in-house bioinformatics pipeline managed by UKAS: 10742, hosted on UKHSA informatics infrastructure and MLST type designations referenced from PubMLST international database</p> <p>Identification and Typing and Interpretation for Confirmation, Surveillance and Outbreak Detection</p> <p>BRD0474 - Identification and typing of Listeria by WGS</p>	<p>GBRU</p>
<p>Pre-isolated Culture</p>	<p>Identification of <i>Bacillus spp</i> except <i>B. anthracis</i></p>	<p>Culture: BRD0391 - Plating out and processing incoming cultures of <i>Bacillus sp</i>, <i>Clostridium perfringens</i>, <i>Listeria sp.</i> and <i>Campylobacter sp.</i></p> <p>DNA extraction - Manual BRD0264-Rapid DNA Extraction from Bacterial Colonies using MicroLYSIS reagent</p> <p>Real-time PCR: using Applied Biosystems 7500 fast; QuantStudio</p> <p>BRD0260 - Detection of <i>Bacillus emetic</i> toxin gene by Real Time Polymerase Chain Reaction</p>	<p>GBRU</p>



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Pre-isolated Culture	Identification of <i>Bacillus spp</i> except <i>B. anthracis</i> (cont'd.)	MALDI-TOF MS: BRD0294 - Preparation of extracts and target plate for the identification of <i>Bacillus</i> species by MALDI TOF analysis fAFLP typing performed by Colindale Sequencing Laboratory, (8727), UKHSA. Inhouse data analysis: using BioNumerics and Peakscanner BRD0236 - Fluorescent amplified fragment length polymorphism (FAFLP) analysis of <i>C. perfringens</i> and <i>B. cereus</i> BRD0498 - Bioinformatic analysis of Fluorescent amplified fragment length polymorphism for <i>B. cereus</i> and <i>C. perfringens</i>	GBRU
Faeces	Detection of <i>C. perfringens</i> enterotoxin	ELISA: using Thermo Scientific Multiskan FC plate reader BRD0254 - Extraction and detection of <i>Clostridium perfringens</i> enterotoxin from faecal specimens by TECHLAB ELISA kit using Thermo Scientific Multiskan FC plate reader	GBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p><i>Campylobacter</i> identification and typing and antimicrobial resistance screening</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Culture and E Test: BRD0391 - Plating out and processing incoming cultures of <i>Bacillus</i> sp, <i>Clostridium perfringens</i>, <i>Listeria</i> sp. and <i>Campylobacter</i> sp</p> <p>BRD0263 - Phenotypic Antimicrobial Susceptibility Testing in Enterobacteriaceae <i>Helicobacter pylori</i>, <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i></p> <p>DNA Extraction: using Qiagen QIAasympphony</p> <p>BRD0230 - Extraction of DNA from Gram-positive bacteria and Gram-negative Enterobacteriaceae, and submission for Whole Genome Sequencing</p> <p>Whole Genome Sequencing (WGS) performed by Colindale Sequencing Laboratory (8727), UKHSA.</p> <p>Data analysis: automated analysis, in-house bioinformatics pipeline managed by UKAS: 10742 hosted on iUKHSA informatics infrastructure and MLST type designations referenced from PubMLST international database</p>	GBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Data derived from above provided by UKAS: 10742</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Campylobacter identification and typing and antimicrobial resistance screening (cont'd)</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>WGS: performed by UKHSA Central Sequencing Laboratory</p> <p>Identification and Typing and Interpretation for Confirmation, Surveillance and Outbreak Detection</p> <p>BRD0473 - Identification and typing of Campylobacter by WGS</p>	<p>GBRU</p>
<p>Pre-isolated Cultures, gastric biopsies</p>	<p>Isolation and identification of <i>Helicobacter spp</i> and Antibiotic Susceptibility testing</p>	<p>Culture and Etest</p> <p>BRD0262 - <i>Helicobacter</i> gastric biopsy and culture processing BRD0263 - Phenotypic Antimicrobial Susceptibility Testing in Enterobacteriaceae <i>Helicobacter pylori</i>, <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i></p>	<p>GBRU</p>



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Cultures</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p><i>E. coli</i>, Shigella, Yersinia, Vibrio Identification and typing</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>DNA Extraction using Qiagen QIAasyphony</p> <p>BRD0444-Identification of Escherichia, Shigella, Yersinia and Vibrio BRD0401-Routine processing and typing of HG3 <i>E. coli</i>, <i>Shigella</i> and <i>Salmonella</i> isolates BRD0230 - Extraction of DNA from Gram-positive bacteria and Gram-negative Enterobacteriaceae, and submission for Whole Genome Sequencing</p> <p>Whole Genome Sequencing (WGS): performed by Colindale Sequencing Laboratory (8727), UKHSA.</p> <p>Data analysis: automated analysis, in-house bioinformatics pipeline managed by UKAS: 10742 hosted on UKHSA informatics infrastructure and MLST type designations referenced from PubMLST international database</p>	GBRU



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Data derived from above provided by UKAS: 10742</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p><i>E. coli</i>, Shigella, Yersinia, Vibrio Identification and typing (cont'd.)</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Identification and Typing and Interpretation for Confirmation, Surveillance and Outbreak Detection</p> <p>BRD0475 - Identification and typing of <i>E. coli</i> and Shigella by whole genome sequencing</p> <p>BRD0476 - Identification and typing of Vibrio and Yersinia by whole genome sequencing</p>	<p>GBRU</p>
<p>Faeces and pre-isolated cultures</p>	<p>Shigatoxin-producing <i>E coli</i> typing</p>	<p>Real-Time PCR Rotagene</p> <p>BRD0411- GBRU PCR Procedures BRD0040 - Isolation of Presumptive STEC from Faeces</p>	<p>GBRU</p>



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Pre-isolated Culture	Salmonella identification and typing (cont'd.)	Identification and Typing and Interpretation for Confirmation, Surveillance and Outbreak Detection BRD0440 – Identification and typing of Salmonella by whole genome sequencing. BRD0289 – Processing of routine Salmonella cultures for DNA extraction and WGS, Identification, serotyping and PCR.	GBRU
Residual specimen from unprocessed NAAT swab, dry swab, urine or extracted DNA	Molecular detection of the adhesion MgPa and gap genes and determination of mutations associated with macrolide and fluoroquinolone resistance in Mycoplasma genitalium	Nucleic acid extraction: using the Qiagen QIASymphony DSP Virus/Pathogen Midi kit and the Qiagen QIASymphony BRD0350-Sample reception and DNA extraction procedures in STIRL BRD0017 - Nucleic acid extraction using the Qiagen QIASymphony Real-time PCR and Sanger sequencing using QIASymphony and QuantStudio 5 BRD0507 Multiplex real-time PCR assay for the detection of Mycoplasma genitalium in clinical specimens on Quantstudio 5	STIRL



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Residual specimen from unprocessed NAAT swab, dry swab, urine or extracted DNA	Molecular detection of the adhesion MgPa and gap genes and determination of mutations associated with macrolide and fluoroquinolone resistance in <i>Mycoplasma genitalium</i> (cont'd.)	BRD0518 Real-time PCR and Sequence Detection of Macrolide and Fluoroquinolone Resistance Mutations in <i>Mycoplasma genitalium</i>	STIRL
Pre-isolated Culture, residual specimen from unprocessed NAAT swab, dry swab urine or extracted DNA	Confirmation, identification and susceptibility testing of <i>Neisseria gonorrhoeae</i>	BRD0251- Processing of Specimens Received into STIRL for the Identification and/or Susceptibility Testing of <i>Neisseria gonorrhoeae</i> Gram stain/microscopy & Oxidase Using a light microscope BRD0247 - Determination of Cytochrome Oxidase Activity BRD0053 - Gram's Stain BRD0255 - Use of the Light Microscope Mass spectrometry Using the Bruker Sirius MALDI-TOF BRD0300 - Sample Preparation for Profiling on MALDI Biotyper and Target Plate Cleaning BRD0301 - Use of MALDI Biotyper and Data Analysis	STIRL



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HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)	<u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)	Documented in-house procedures with manufacturer's instructions	
Pre-isolated Culture, residual specimen from unprocessed NAATswab, dry swab urine or extracted DNA	Confirmation, identification and susceptibility testing of <i>Neisseria gonorrhoeae</i> (cont'd.)	Biochemical: API-NH BRD0249 - Using the API NH Kit for the Identification of Putative <i>Neisseria gonorrhoeae</i> Antibiotic susceptibility testing: Commercial Using Etest BRD0283-Determination of MICs by Etest method	STIRL
Pre-isolated Culture	Confirmation, identification and susceptibility testing of <i>Neisseria gonorrhoeae</i>	Real-time PCR Using QuantStudio 5 BRD0536 Sample Preparation and Molecular Detection of <i>Neisseria gonorrhoeae</i> Specific DNA Directly from Lysates using the GeneProof RT-PCR assay	STIRL



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>NAAT swab, dry swab, urine, culture lysate or extracted DNA from isolate</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Molecular detection of ceftriaxone resistance in <i>Neisseria gonorrhoeae</i></p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Nucleic acid extraction: Commercial Extraction using the Qiagen QIASymphony DSP Virus/Pathogen Midi kit and the Qiagen QIASymphony</p> <p>BRD0350-Sample Reception and DNA Extraction Procedures in STIRL</p> <p>BRD0017 - Nucleic Acid Extraction using the Qiagen QIASymphony</p> <p>Real-time PCR using QIASymphony (for NAAT samples, dry swab, urine only) and QuantStudio 5</p> <p>BRD0521 Sample Preparation and Molecular Detection of Ceftriaxone Resistance in <i>Neisseria gonorrhoeae</i></p>	<p>STIRL</p>



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Pre-isolated Culture	MIC testing of organisms For GRASP, <i>Neisseria gonorrhoeae</i>	Antibiotic susceptibility testing: Agar Dilution Using multipoint inoculator, Image Analyser and Sorcerer Mic Software BRD0231 - Preparing antimicrobial solutions and agar plates for determining MIC of <i>Neisseria gonorrhoeae</i> BRD0238 - Determination of MIC of <i>Neisseria gonorrhoeae</i> BRD0334 - Use of nitrocefin reagent to test for beta-lactamase production in <i>N. gonorrhoeae</i> BRD0402 -The retrieval, cultivation, identification and archiving of <i>Neisseria gonorrhoeae</i> for GRASP	
Pre-isolated Culture	- Detection of Class A, B and D carbapenemases - Detection of plasmid-mediated colistin resistance determinants	BRD0443 - Use of the AusDiagnostics assay for the detection of carbapenemase and transferable colistin resistance genes (multiplex tandem PCR and nested multiplex RT-PCR)	



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Coagulase negative Staphylococci identification (cont'd.)</p> <p>Streptococcal typing Lancefield Groups A, B, C, G</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Data analysis: In-house automated analysis using bioinformatics pipeline managed by UKAS: 10742 hosted on UKHSA informatics infrastructure & MLST type designations referenced from PubMLST international database</p> <p>DNA extraction</p> <p>Block-based PCR: Veriti Thermal cycler, Invitrogen E-gel, Gel Doc</p> <p>Sanger sequencing carried out by Colindale Sequencing Laboratory (8727), UKHSA Data analysis: BioNumerics – emm Types Designated and Curated by CDC (only for Group C and G)</p> <p>BRD0080-Laboratory Typing Methods for Group A,C and G Streptococci BRD0081 - Laboratory Typing Methods for Group B Streptococci Microtitre Plate Method</p> <p>BRD0107 - Sequencing of Streptococcus Group A, C and G</p> <p>Agglutination: Antisera for GBS</p> <p>BRD0093 - Use of PROLEX™ Streptococcal Grouping Latex Kit</p>	<p>AMRHAI-SSRS</p>



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Pre-isolated Culture	Streptococcal identification	Biochemical assay API kits and reagents and In-house Assay BRD0096 - Identification of Streptococci and related genera-primary testing BRD0097 - Identification of Streptococci and related genera-additional tests BRD0093 - Use of PROLEX™ Streptococcal Grouping Latex Kit	AMRHAI-SSRS
Pre-isolated Culture	<i>Staphylococcus aureus</i> (toxin gene detection) in non enteric and enteric disease	Nucleic acid extraction: using Qiagen QIAamp DSP DNA Mini Kit and the QIASymphony automated nucleic acid platform BRD0293 - Pre-lysis of bacterial isolates cultured on solid media for DNA extraction via QIASymphony BRD0017 - Nucleic acid extraction using the Qiagen QIASymphony Whole Genome Sequencing performed by Colindale Sequencing Laboratory (8727), UKHSA.	AMRHAI-SSRS



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Data derived from above provided by UKAS: 10742</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p><i>Staphylococcus aureus</i> (toxin gene detection) in non enteric and enteric disease (cont'd.)</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Data analysis: In-house automated analysis using bioinformatics pipeline managed by UKAS: 10742, hosted on UKHSA informatics infrastructure & MLST type designations referenced from PubMLST international database</p> <p>BRD0398 - Workflow for Whole Genome Sequencing</p> <p>BRDW0854 Submission of new allele sequences and new STs to PubMLST <i>S. aureus</i> database</p> <p>BRDW0951 - SaGE User Manual</p>	<p>AMRHAI-SSRS</p>



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<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p><u>Opportunistic Pathogens</u></p> <p>Characterisation for Typing of Klebsiellaby an associated laboratory for public health purposes.</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Characterisation DNA Extraction: Manual</p> <p>PCR: Applied Biosystems Veriti 96 well thermal cycler Analysis: QIAxcel, Agarose gel electrophoresis</p> <p>BRD0353 - PCR Characterisation of Klebsiella isolates</p> <p>Typing Variable Number Tandem Repeat Analysis DNA Extraction: Manual PCR: PCR Max/Bio-Rad T100 Thermal Cyclers, Fragment Analysis: Agarose gel electrophoresis and Fragment Analysis (Performed by Colindale Sequencing Laboratory (8727), UKHSA. Comparison on BioNumerics</p> <p>BRD0252 – Multiple locus VNTR analysis of <i>Klebsiella pneumoniae</i></p>	<p>AMRHAI- OppPath</p>



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United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

UK Health Security Agency, an executive agency of the Department of Health and Social Care

Issue No: 020 Issue date: 14 November 2025

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre isolated culture</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>E. coli typing (HG2 only; Healthcare associated)</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>DNA Extraction: using the Qiagen QIA Symphony DSP mini kit BRD0519 - Pre- Treatment of Opportunistic Pathogen Bacteria Prior to DNA Extraction on the Qiagen QIA Symphony</p> <p>BRD0017 - Nucleic acid extraction using the Qiagen Qiasymphony</p> <p>Whole Genome Sequencing (WGS) performed by Colindale Sequencing Laboratory (8727), UKHSA.</p> <p>Inhouse Data analysis: automated analysis, in-house bioinformatics pipeline managed by UKAS: 10742, hosted on UKHSA informatics infrastructure and MLST type designations referenced from PubMLST international database</p> <p>GastroDataWarehouse, BioNumerics database</p> <p>BRD0486- Whole Genome Sequencing of <i>Escherichia coli</i> using the GBRU Laboratory Procedures and pipeline: preparation of isolates and analysis of results</p>	<p>AMRHAI- OppPath</p>



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HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)	<u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)	Documented in-house procedures with manufacturer's instructions	
Pre isolated culture	Typing of <i>Pseudomonas aeruginosa</i>	DNA Extraction: Manual PCR: Bio-Rad T100 thermocycler Fragment Analysis Performed by Colindale Sequencing Laboratory (8727), UKHSA. Inhouse Data Analysis: BioNumerics, QIAExcel BRD0166 –VNTR analysis for typing of <i>Pseudomonas aeruginosa</i>	AMRHAI- OppPath
Pre isolate culture	Typing of <i>Mycobacterium abscessus</i> complex	DNA Extraction: Manual PCR: PCR Max Fragment Analysis performed by Colindale Sequencing Laboratory (8727), UKHSA. Inhouse Data Analysis: BioNumerics, QIAExcel BRD0218 – VNTR analysis for typing of the <i>Mycobacterium abscessus</i> complex	AMRHAI- OppPath



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Pre-isolated Culture, broth, swabs, DNA extracts</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Identification of unknown/atypical bacteria</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>Mass spectrometry using the Bruker Sirius MALDI-TOF</p> <p>BRD0253 - Algorithm for Identification of Unknowns in AMRHA1</p> <p>BRD0300 - Sample preparation for profiling on MALDI Biotyper and target plate cleaning</p> <p>BRD0301 - Use of MALDI Biotyper and data analysis</p> <p>DNA Extraction: using ABI PrepMan reagent BRD0417-Extraction of Nucleic Acid from Bacteria at CL3</p> <p>PCR: In-house partial 16S rRNA gene PCR using ABI 9700, Biomek NXP robot</p> <p>Sanger Sequencing: performed by Colindale Sequencing Laboratory (8727), UKHSA.</p> <p>BRD0421 - 16S rRNA Identification by Sequencing</p> <p>Inhouse Data Analysis: BioNumerics/ NCBI BLAST/Pathogenomix RipSeq</p> <p>BRD0419 – Analysing / Blasting sequence data and reporting</p>	<p>AMRHAI-BIDS</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN TISSUE/FLUIDS - specified Pre-isolated cultures of microorganisms unless stated (cont'd)</p> <p>Tissue, pus, liquid, blood culture fluid or FFPE samples</p>	<p><u>Identification, typing and susceptibility testing of microorganisms for the purpose of clinical diagnosis, epidemiology and infection control</u> (cont'd)</p> <p>Detection and identification of bacteria from normally sterile sites</p>	<p>Documented in-house procedures with manufacturer's instructions</p> <p>DNA Extraction: using Qiagen Blood & Tissue kit</p> <p>BRD0455-Extraction of Bacterial DNA From Clinical Samples at CL3 using the QIAgen blood and tissue kit</p> <p>PCR partial 16S rRNA Gene Real-Time PCR & Sequencing using the LightCycler 480, Biomek NXP Robot</p> <p>Sanger Sequencing: performed by Colindale Sequencing Laboratory (8727), UKHSA.</p> <p>BRD0416 - Real-Time PCR Amplification Of 16S rDNA and Identification By Sequencing</p> <p>Inhouse Data Analysis: BioNumerics/ NCBI blast/Pathogenomix RipSeq</p> <p>BRD0419 - Analysing / Blasting sequence data and reporting</p>	<p>AMRHAI-BIDS</p>
END			