

**ROTUNDA HOSPITAL DEPARTMENT OF LABORATORY MEDICINE**

**Microbiology Active Test Repertoire Table LF-GEN-0070 Ed 11**

**This Active Test Table informs the user of Microbiology; Andrology & Serology tests available in house.**

**Tests referred to other sites are recorded in the Referred Test Table.**

**Active Date: Feb 2025    Contact phone number Ext 1466/1210/9311**

No.	Sample	Test	Specimen	Sample	Special Precautions and factors known to affect the performance of the examination or the interpretation of results	Turnaround Time	INAB Accredited Test Reg No 208MT
1.	Environmental swabs	C/S	Transport Swab	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hrs	✓
2.	Cannulae Tips (all types)	C/S	Last 20 mm of tip	N/A	Sterile precautions required	48-72 hrs	✓
3.	Fluid or Pus or Semen	C/S (Gram on request)	Representative sample in a sterile leak proof container	1- 5 ml	Deliver to lab immediately and bring to attention of medical scientist	48-72hrs	✓
4.	CSF, Amniotic Fluid or Fluid from Normally Sterile Site	Cell Count, Gram stain, Culture and sensitivity	Up to 3 samples (CSF), 1 Sample Amniotic Fluid in sterile leak proof containers	1ml x 3 (CSF), 1ml amniotic fluid	Deliver to lab. Immediately and bring to attention of medical scientist  The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	Cell count – 2 hours Gram 24hrs 48-72hrs culture	✓
5.	Blood	Culture	10ml per bottle (adult)	N/A	Incubate immediately at 37°C in the BacT Alert 3D otherwise leave at RT. Must reach the lab as soon as possible or within 4 hours of sampling.	Usually 5 days, preliminary	✓

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			1ml per paed bottle (paed)		DO NOT Place in The Fridge	report after 24 hours (adults) or 36 hours (Neonates). Positive Result and/or Filmarray – 4hrs	
6.	Swab – all sites	Culture/sensitivity & gram stain if required	Transport swab	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hrs	✓
7.	Environmental Plates	Culture/sensitivity	Settle plate	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48–120 hrs	✓
8.	Semen	Infertility Screen Or Special Clearance	Semen in sterile leak proof container. DO-NOT use a condom	N/A	Must reach lab within 1 hour of producing Room available to book on-site – Call 01 8171739	Tested within 1 hour. Results may take up to one week in the post. Results available on	✓

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						LIMS within 3 days	
9.	Semen	Post Vasectomy Screen	Semen in sterile leak proof container. DO-NOT use a condom	N/A	Sample <=3 days old. Correct packaging: <a href="https://www.azdhs.gov/documents/preparedness/state-laboratory/category-a-and-b-shipping-examples.pdf">https://www.azdhs.gov/documents/preparedness/state-laboratory/category-a-and-b-shipping-examples.pdf</a>	Sample tested on day of receipt. Sample over 3 days old will be rejected. Results may take up to one week in the post. Results available on LIMS within 3 days	✓
10.	Wound swab	Culture/sensitivity	Transport swab	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hrs	✓
11.	Sputum	Culture/sensitivity	Sterile universal container	Sputum from lower respiratory area. Not Saliva	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hrs	✓

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12.	Urine See Appendix No.7	Micro/culture/sensitivity	Sterile universal container	1-20ml of a Mid-Stream Urine	Must be Mid-Stream – allow the first part of the Urine to flush away. Catch the mid-stream in a sterile universal container	24-48hrs Urgent MIC – 90 mins	✓
13.	Catheter specimen urine	Micro/culture/sensitivity	Sterile universal container	1-20ml of a catheter specimen	Inform the lab if the sample is a CSU	24-48hrs Urgent MIC – 90 mins	✓
14.	HVS or LVS or PPROM Swabs (Genital)	Microscopy, culture and sensitivity	Transport swab	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hours	✓
15.	MRSA Swab	MRSA	Transport swab	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hrs	✓
16.	Screening Swabs including rectal MRSA VRE CPE ESBL Gent resistant GNB	Culture/sensitivity	Transport swab	N/A	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	72-96 hrs	✓
17.	Urine	Pregnancy	Sterile universal container	1-20ml of urine	The amount of hCG will vary greatly with gestational age and between individuals. The Pregnancy test used in the lab for urine has a sensitivity of 25mIU/ml and is	Urgent 1 hour	✓

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No.	Sample	Test	Specimen	Sample	Special Precautions and factors known to affect the performance of the examination or the interpretation of results	Turnaround Time	INAB Accredited Test Reg No 208MT
					capable of detecting pregnancy as early as 1 day after missed menses.		
18.	Breast Milk	Culture/sensitivity	Sterile universal container	1-5ml	The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results.	48-72 hours	✓
19.	Bacterial Isolates	MRSA PCR GeneXpert Meca/C Gene	Bacterial Isolate	Query MRSA Isolates	Isolates are confirmed on the GeneXpert for resistance and sent to a Reference lab for full confirmation.	For confirmation of MRSA	
20.	LVS/Rectal	GBS PCR GeneXpert	Rectal & LVS	Specimen Collection Device Red Topped Swab	Both Swabs in both sites (LVS 1 <sup>st</sup> then Rectal) The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antibiotic therapy will adversely affect the laboratory results. Testing at 35–37 weeks gestation is recommended to improve sensitivity and specificity of detection of women who remain colonized at the time of delivery.	4 hours	✓
21.	Blood Culture	BioFire FilmArray	Blood Culture	Blood	Test is performed on all positive blood cultures >2hours and <5 days old. Result will be phoned to the consultant Microbiologist once complete and within 4 hours of positive blood culture	4 hours	✓
22.	Respiratory Sample NPA, NS or Secretions	BioFire FilmArray RP2.1	Respiratory sample – NPA Or UTM Swab	NPA, Nasal Swab or Secretions	Universal Transport Media. Transport to the laboratory immediately. All neonatal samples will be tested and any Adult must be consultant led.	24 hours	✓

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23.	Stool Sample	<i>Clostridioides difficile</i> PCR - GeneXpert	Sterile universal container	Uniform stool	Transport to lab immediately – Must take the shape of the container. Formed samples will be rejected. GeneXpert will only Detect Toxin B. Results from the Xpert <i>C. difficile</i> BT Assay should be interpreted in conjunction with other laboratory and clinical data available to the clinician. Performance characteristics were not established for patients <2 years of age.	Same day	✓
24.	Stool Sample	<i>Clostridioides difficile</i> antigen/Toxin (Quik Chek)	Sterile universal container	Uniform stool	Transport to lab immediately and test within 24hours. The test is used to detect <i>C. difficile</i> antigen and toxin(s) in faecal specimens. The test confirms the presence of toxin in faeces and this information should be taken under consideration by the physician in light of the clinical history and physical examination of the patient. The test will detect levels of toxin A at $\geq 0.63$ ng/mL, toxin B at $\geq 0.16$ ng/mL, and glutamate dehydrogenase at $\geq 0.8$ ng/mL.	Same day	✓
25.	Stool Sample	Norovirus PCR - GeneXpert	Sterile universal container	Uniform stool	Transport to lab immediately. Test will be reflexed on all fluid stool samples. Contact lab for Limit of Detection if required	Same day	✓
26.	Urine or Genital Swab	<i>Trichomonas vaginalis</i> PCR - GeneXpert	eNAT Swab (1ml or 2ml)	FVU or Female Genital Swab	Transport to lab immediately Because the detection of <i>Trichomonas vaginalis</i> is dependent on the organism's DNA present in the sample, reliable results are dependent on proper sample collection, handling, and storage.	Same day	✓

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27.	Bacterial Isolates	CPE PCR - GeneXpert	Query CPE Isolates for any site	Bacteria Isolates	Used to Confirm bacterial Isolates for the 5 Most Common targets (VIM, IMP, NDM, KPC and OXA-48). All Query CPE isolates will be referred to a reference lab for full confirmation.	Same day	✓
28.	First Void Urine and/or Genital/Eye Swabs	<i>Chlamydia/N. gonorrhoea</i> PCR using GeneXpert	eNAT Swabs (1ml or 2ml) or UTM (Eye)	2mls FVU Minimum or Female Genital Swab or Eye Swab	A negative test result does not exclude the possibility of infection because test results may be affected by improper specimen collection, technical error, specimen mix-up, concurrent antibiotic therapy, or the number of organisms in the specimen which may be below the sensitivity of the test.	Same day	✓
29.	Deep Nasal Swabs	SARS-CoV-2, Flu A/B and RSV on the GeneXpert	eNAT Swabs (1ml or 2ml) or UTM Swab (enquire at lab)	Deep Nasal Swab	The performance of this test was established based on the evaluation of a limited number of clinical specimens. Clinical performance has not been established in all circulating variants but is anticipated to be reflective of the prevalent variants in circulation at the time and location of the clinical evaluation. Performance at the time of testing may vary depending on the variants circulating, including newly emerging strains of SARS-CoV-2 and their prevalence, which change over time. The quality of the result is dependent on the quality of the specimens, poorly taken specimens, or specimens taken after the start of antiviral therapy will adversely affect the laboratory results.	24 hours	✓
30.	Multiplex real-time PCR assay	<i>M. genitalium</i> and 23s rRNA PCR using the GeneXpert	eNAT Swabs (1ml or 2ml) or Urine	Female Genital Swab	Reliable results are dependent on adequate specimen collection transport, storage, and processing. Failure	Used to confirm Positive	

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	for the identification of Mycoplasma genitalium and detection of mutations associated with resistance to azithromycin		(enquire at lab)	FVU	to observe proper procedures in any one of these steps can lead to incorrect results. Negative results do not exclude the possibility of infection due to improper specimen collection, technical error, and presence of inhibitors, specimen mix up, or low numbers of organisms in the clinical specimen. Used in combination with Seegene to confirm Positive results	results from Seegene – Results will be reported same day as Seegene Above	

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**Serology**

No.	Sample	Test	Specimen	Sample	Special Precautions	Turnaround Time	NAB Accredited Test Reg No.208MT
31.	Any urine type <b>See Appendix No.7</b>	Chlamydia/N. gonorrhoea/Trichomonas vaginalis/Mycoplasma genitalium PCR - Seegene	Urine – Preferably FVU	2 ml minimum	The quality of the result is dependent on the quality of the specimen. For best results please send a FVU.	24-96 hours	✓
32.	Swab – All female genital sites	Chlamydia/N. gonorrhoea/Trichomonas vaginalis/Mycoplasma genitalium PCR - Seegene	eNAT Swabs (1ml or 2ml) (enquire at lab)	eNAT 1 or 2ml Swab	The quality of the result is dependent on the quality of the specimen. HVS is the specimen of choice	24-96 hours	✓
33.	HVS	Bacterial vaginosis PCR Seegene	High Vaginal Swab eNAT Swabs (1ml or 2ml)	eNAT 1/2ml Swab	The quality of the result is dependent on the quality of the specimen. HVS is the specimen of choice	One Run a week	✓
34.	Blood	Hep B – Abbot Architect	Clotted sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓
35.	Blood	Hep B Core – Abbott Architect & Mini Vidas	Clotted sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓

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36.	Blood	Hep C – Abbot Architect	Clotted sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓
37.	Blood	VZV – Mini Vidas	Clotted sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓
38.	Blood	Rubella IgG - Abbott Architect & Mini Vidas	Clotted sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓
39.	Blood	Syphilis TPE Screen – Abbott Architect	Clotted sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓
40.	Blood	HIV – Abbott Architect	Clotted Sample	5-8 mls	Fresh Serum sample	Urgent 3 hours, routine 24-72 hours*	✓

**All accredited tests (✓) fall under the labs Flexible scope of accreditation 208MT**

**For samples requiring a re-test (PCR or Serology) TATs may be extended by 1-2 days**

**TATs are calculated from time of receipt into the lab; so if urgent please bring to the lab ASAP**

**If unsure of sample requirements, please contact lab at 1466 (Mon-Fri 8am-6pm) or on-call Bleep 838**

**If there is a delay in TATs due to analyser downtime, contact will be made through the Consultant Microbiologist**