



PF-PTD-55

## **Blood Culture**

Synonyms	BC
Clinical Indication	Suspected septicaemia, endocarditis, septic shock, meningitis, pneumonia. Refer to Sepsis guidelines
Part of Profile / See Also	Routine Culture for Aerobic and Anaerobic bacteria
	Fungi or Mycobacteria/ AFB Culture by specific request Refer to PF-PTD-215
Request Form	Order comms request i.e., ICE or Medway
	OR clearly handwritten Microbiology form where order comms not available
Availability / Frequency of	On request.
Analysis	<b>Routine and Fungal Blood cultures</b> MUST be delivered to the lab as soon as possible, preferably within 1 hour. These will be loaded onto the analyser on receipt in the lab at the hospital.
	<b>Cultures bottles for Mycobacteria</b> will be transported to the Hub Laboratory for analysis.
Turnaround Time	<ul> <li>A Negative interim report will be issued at 48 hours for adults and 36 hours for paediatrics.</li> <li>A Negative final report will be issued at 5 days for routine cultures. Samples from certain wards (Colne, Chelmer, Roding), or where SBE, endocarditis, Brucella, heart and prosthetic valve involvement, heart murmur or fungal infection is indicated, a final report will be issued at 14 days. Cultures for Mycobacteria will take up to 42 days.</li> <li>A Positive report will be issued when a culture becomes positive on the analyser. Initially the report will indicate that a positive has been detected. This may be issued at any time throughout day or night.</li> <li>A further report will then be issued - up to 5 days post flagging.</li> </ul>
Patient Preparation	Aseptic technique MUST be used when collecting blood cultures. Clean patient's skin with appropriate wipes as provided in blood culture collection kit. Do not re-palpate skin once cleaned. Where possible, blood cultures must be collected prior to commencement of antibiotic therapy. However, commencing antibiotics in a septic patient should not be delayed.
Sample Requirements	Once received the bottles must be loaded onto the FX as soon as possible and within 4 hours of collection from the patient. AVOID incubating or refrigerating inoculated blood cultures prior to loading to the FX. Pre-incubation may mean that organisms present have gone through the growth phase and be in the stationary or decline phase; bottles containing such organisms will not register positive.



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Specimen Type	Whole blood
Volume	Sample Volumes are indicated on each bottle.
	<b>ADULT ROUTINE</b> : A routine blood culture set consists of two bottles: Aerobic – blue top / grey cap and Anaerobic - purple top / mauve cap For optimum recovery of organisms, inoculate each bottle with 8-10 ml of blood.
	<b>PAEDIATRIC ROUTINE:</b> A single bottle - silver top/ pink cap. For optimum recovery of organisms, inoculate with 1 – 3 ml of blood
	<b>MYCOBACTERIA / AFB:</b> A single bottle – Red top / white cap. For optimum recovery of Mycobacteria, inoculate with 3 - 5ml of blood
	<b>FUNGAL CULTURE / MYCOLOGY:</b> A single bottle – Grey top / green cap Accepted specimen volume range is 3ml to 10mL.
Container	CE marked BD BACTEC style blood culture bottles



Fungal / Mycology bottles (grey top / green cap) and AFB/Mycobacteria bottles (red top/white cap) are available by special request from Pathology First reception.

Reference Range & Units	
Interferences	Bottles must not be over or under filled as this may yield sub optimal results.
Interpretation & Clinical	Consultant Microbiologist may provide clinical interpretation if required.
Decision Value	
(if applicable)	
References	
Test code	BCA (Blood Culture Adult), BCP (Paediatric), MYBC (Fungal),
	TBBC (TB/Mycobacteria)
Lab Handling	Blood culture bottles should be loaded onto the FX analyser on receipt.