

# AUTOMATION IN MICROBIAL CULTURE, IDENTIFICATION & SENSITIVITY

## Primary Screening

**BACTEC 9050 & BACT/ALERT 3D**  
(Blood Culture)

**HB&L Analyzer (ALIFAX)**  
(Urine culture)

**VITEK / Manual**  
(For Identification & AST)

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## URINE CULTURE

UTI, a syndrome, common in females than males, elderly & diabetic patients.

Urine cultures are intended to identify bacteria causing UTI.

### Advantages

- Detects Viable Bacteria only.
- Quantitative results in CFU/mL.
- Automated McFarland monitoring.
- Real time detection by growth curves.
- Negative results in 5-6 hrs, thus avoiding delay and irrational treatment.
- Platform capacity of 60 samples at a time.

### Turnaround Time (TAT)

- Urine screening: 5 hrs
- Human body fluids screening: 6 hrs
- Positive results : within 45 minutes to 3 hours
- Final reporting comprised of Identification and Susceptibility testing - 24 hours



**HB&L (Light) Analyzer (ALIFAX)**

**SENSITIVITY: 95.5%**  
**SPECIFICITY: 99.8%**



**BACT/ALERT 3D**

## BLOOD CULTURE

A Qualitative Test used for rapid detection of bacteremia & fungemia in blood.

- Automated, continuous monitoring of cultures through fluorescent technology.
- Reduced post-intervention handling resulting **less risk of contamination**.
- **More sensitive** than routine blood culture.
- Increased yield.

### Specimen

**Blood :** Adults-Up to 10ml, Paeds-Up to 1-2 ml



**BACTEC 9050**

**SENSITIVITY: 99%**  
**SPECIFICITY: 95%**

# ANTIBIOTIC SENSITIVITY TESTING : THE VITEK-2 Compact

VITEK 2 - Automated platform for bacterial identification and antibiotic susceptibility testing.

- Calorimetry and Turbidometry based biochemical identification.
- Minimum Inhibitory Concentration (MIC) based Antibiotic Susceptibility Test (AST)
- Identification / AST (CLSI complied) panel of Gram Positive , Gram Negative and Yeast isolates.



## Turn Around Time of Blood Culture:

48 Hrs and 7 Days



VITEK 2 compact

SENSITIVITY: 99%  
SPECIFICITY: 95%

## TESTS AVAILABLE

Aerobic / Pyogenic culture and AST

Fungal Culture and Anti-fungal susceptibility testing for yeast

AFB Culture including DST for First Line Drugs (FLD)

Specialized Staining and Microscopy

## OUR UNIQUE PROPOSITIONS

- **28+ years** of trusted diagnostic services expertise.
- **NABL Accredited** Laboratory.
- Largest Microbiology laboratory equipped with **automation and advanced technology**.
- **Biosafety Level II** and 2 plus facility for high risk pathogens.
- Antibiogram , strictly in compliance with **CLSI guidelines**.
- **Certified procedures** within stipulated Turn Around Time (TAT).
- **Team of experts** dedicated to Microbiology headed by Dr. B. Lal Gupta.
- **Direct communication** of Clinician with team of qualified / specialized medical experts.



Corporate office & Central Laboratory:  
**Dr. B. Lal Clinical Laboratory Pvt. Ltd.**  
6E, Malviya Industrial Area, Malviya Nagar, Jaipur-17.  
Website: [www.blallab.com](http://www.blallab.com), E-mail: [customer care@blallab.com](mailto:customer care@blallab.com)



Customer Care No: +91-9166125555