

WELCOME TO



Since 1991

Dr. B. Lal

Clinical Laboratory

Serves Best, Serves All

MICROBIOLOGY DEPARTMENT

Serves Best, Serves All

UNIQUE PROPOSITIONS

- **28+ years** of trusted diagnostic services expertise.
- **NABL Accredited Largest Microbiology Laboratory** equipped with **automation and advanced technology**.
- **CLSI complied Antibigram.**
- **Certified automated procedures** with ***faster Turn Around Time (TAT).***
- **Dedicated team of experts in Microbiology** headed by Dr. B. Lal Gupta.
- **Direct communication** of Clinician with team of qualified / specialized medical experts.



Excellence of Dr. B Lal Clinical Laboratory in Microbiology

More than 30
centers in
Jaipur District

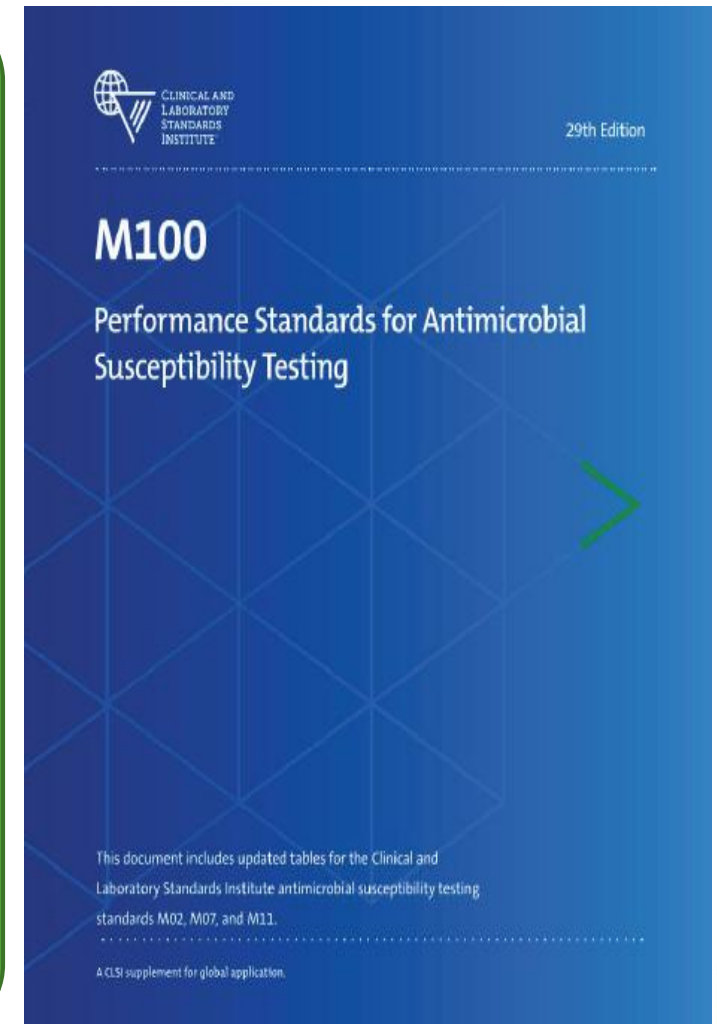
*Proper specimen
collection* and
transport from centre
and hospitals

Quality assured
Microbiological
Investigations

Automation in Microbiology

Better diagnostic yield ;
Faster Turn Around Time

*Higher precision in identification
and antibiotic sensitivity test
results*



Urine Culture automation at Dr. B. Lal Clinical Laboratory



HB& L (Light) Analyzer(ALIFAX) (Fully automated Rapid Culture)

- ✓ Based on *Patent scattering light technology* to *detect only replicating bacteria.*
- ✓ Urine screening: 5 hrs (TAT)
- ✓ Human body fluids screening: 6 hours
- ✓ **Positive results : 45 min. to 3 hours**
- ✓ Quantitative results in CFU/ml.
- ✓ Real time detection of growth curves
- ✓ High sensitivity and specificity.

VITEK 2 compact

(Identification and Antibiotic Susceptibility Test)

TAT- 8-10 Hrs

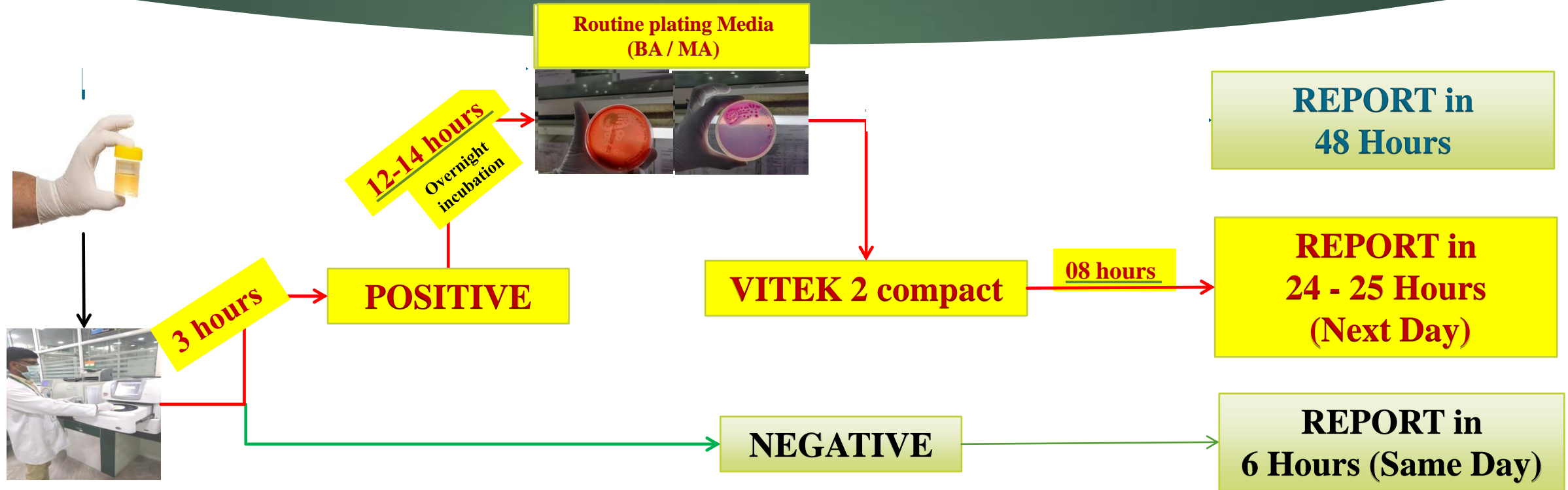


- ✓ Biochemical Identification (more than 45) using Calorimetry & Turbidometry.
- ✓ Identification of all pathogens in (GRAM POSITIVE, GRAM NEGATIVE & YEAST CATEGORY) along with CLSI guided Minimum Inhibitory Concentration (MIC) based AST pattern.
- ✓ Highest capacity of **discrimination of species.**

➤ **SENSITIVITY: 99% ; SPECIFICITY: 95%**



Urine Culture - the way we do !!!



Blood Culture automation at Dr. B. Lal Clinical Laboratory



BACT/ALERT 3D BACTEC 9050

THE BLOOD CULTURE PLATFORMS

- ✓ For rapid detection of microorganisms in **blood and sterile body fluids**
- ✓ Continuous, non-invasive testing of cultures through fluorescent technology.
- ✓ Minimum handling so less risk of contamination.
- ✓ More sensitive and specific than routine blood culture.
- ✓ Reliable.

❖ **Intended Specimen :**

- ✓ Blood; CSF
- ✓ Synovial fluid
- ✓ Pleural fluid
- ✓ Ascitic fluid
- ✓ Pericardial fluid etc.



Blood & body fluid culture - the way we do !!!



D- 0

D- 1

D-2

D- 3

D- 4

D- 5

D- 6

D- 7

Incubation in B_{AC}T/ALERT 3D or BACTEC 9050

Positive in 24-48 hours

1 hour

Gram's stained ID and
first information to the clinician

Overnight Incubation

Routine plating
Media (BA / MA)



Capnophilic
Incubation

Overnight Incubation

ID and AST
(Conventional / Automation)

1 hour

POSITIVE

Negative till 48 hours

Report online

F.I. for next 5 days

B/C Sterile

**FINAL
REPORT**

TAT for Positive B/C – 48 Hours

TAT to declare B/C NEGATIVE / STERILE – 7 Days



With Automation you get.....

Accurately identified bacterial / fungal species



Privilege of CLSI guided MIC based AST panel.



No irrational use of antibiotics, thus better patient management.



And achieve a cured and satisfied patient.



Extended Panel of culture and microscopic investigations

**Automated Blood Culture by BACTEC 9050
and BACT/ALERT 3D**

Fungal Culture and Anti-fungal susceptibility
testing for yeast

Aerobic / Pyogenic culture and AST

**AFB Culture & DST to FLD by MGIT 320
Rapid Liquid Culture system**

Gram's Staining

ZN Staining for AFB Smear

Albert's Staining for Diphtheria

India Ink for CSF

KOH mount for fungi

Hanging Drop for *V.cholera*

Slit smear examination for Hansen's bacilli

Modified Gram's Staining for Bacterial Vaginosis

Hydatid Cyst for Scolex

Wet mount examination for ova and cyst



SCIENTIFIC TEAM



Dr. B. Lal Gupta
Managing Director, Dr. B. Lal Group
MBBS, MD Microbiology
Experience- 34 Years



Dr. Sandeep K. Shrivastava
Sr. Scientist
Molecular Medical Microbiology
Experience- 18 years



Dr. Deepika Gupta
Sr. Scientist
Cell and Molecular Biology
Experience- 12 years



Mr. Rajat Prakash
Microbiologist
Experience- 3 years



Ms. Mandvi Mathur
Junior Scientist
Experience- 3 Years



TECHNICAL TEAM



Mr. Ramjas Nagar
Technical Manager



Jeetram Mahavar
Executive Technical



Dharamveer Meena
Executive Technical



Ambikesh Dadhich
Executive Technical



Anuj Meena
Executive Technical

