

FAQ's on Mobile Lab

1. What is Mobile Lab?

Mobile Lab is Compact Portable Clinical Biochemistry Laboratory in a suitcase having Power Back-Up which contains all essential instruments like Biochemistry Analyzer, Centrifuge, Incubator, Data Recorder with Patient Data Management Software, Micropipettes and other accessories. It has a proper place for each and every component of Lab and it is so rugged that can be easily carried to the far flung and remotest locations.

2. How Mobile Lab is different from Biochemistry analyzer?

Mobile lab is a whole clinical biochemistry laboratory that is handy and easily transportable, it contain all instruments where Biochemical Analyser is only one component. Biochemistry analyser is a machine on which we can read the concentration of biochemical parameters of blood.

3. What features of Accuster Biochemistry Analyzer make it different from other Brand Analyzers?

Accuster is able to design Mobile Lab because of unique features present in Accuster's Biochemistry Analyzer:

- * Smallest in size
- * No usage of Lamps and Filters which make it Rugged and Maintenance Free
- * Based on Patented technology
- * Very light in weight
- * Unique way of Calibration
- * Upgradable : More tests can be programmed
- * USB Support , compatible with PDMS

4. What is the overall Life of Machine?

It can go more than 20 years.

5. Where mobile lab can be utilized.

It has well utilization at following places:

- * Field Laboratory Operation : Defense Forces
- * Laboratory Set up in miniature space – Doctor's Clinics, ICUs, MI Rooms
- * Mobile Medical Units (MMU)
- * Medical Camps (Mass Screening)

- * Ambulances
- * CSR
- * Employee's Wellness Programs
- * Primary Health Centers, Community Health Centers
- * Critical Care

6. What is the accuracy of Mobile Lab.

Accuracy of Mobile lab depends upon accuracy of components. If all components are working properly we can say mobile lab is accurate. To work with accuracy, validation and calibration of components at particular time interval is necessary.

Accuster Mobile lab Validation has been done in AIIMS, R&R Hospital, Various health ministry and more that 1000 doctors across India are using it successfully.

7. How mobile lab is standardized and calibrated?

All the procedures are specified in User manual by which you can standardize or calibrate the Mobile lab.

8. How Mobile Lab is Cost – Effective?

Below mentioned points give rise to cost effectiveness:

- * Blood collection cost is minimum in the world
- * Blood Vacutainer tube is not required, as blood is taken directly into centrifuge tubes.
Centrifuge tube Cost is 0.50 paisa.
Vacutainer tube Cost is 15 Rs.
- * Reagent consumption is only 0.5 ml that increases the no. of tests per reagent kit hence cost comes down.
For Instance, 1 Glucose Reagent Set of 500ml, cost is Rs 400.
No of tests: 1000
Per Test Cost: 0.40 paisa
- * No EDTA solution and Sodium Fluorite is required for maintaining the blood sample since blood is centrifuged on the spot
- * No maintenance cost: Due to use of innovative and patented technology based on LED, it do not require repairing frequently while needed in other analyzers.
- * Transportation cost of taking blood sample from collection centre to diagnostic laboratory become nil.
- * Manpower Cost is low comparatively :
 - Reading Time that is time taken to read out sample after sample processing is only 3 sec
 - No warm-up time and Cooling time is required, device can run continuously.

- Temperature Maintenance for Accurate – all analyzer is not required while in other analyzers it is required

Hence, Lab technician can perform more in less time.

- * Electricity consumption is very low as mobile Lab works on battery system,
Battery used: 12 volt DC
1 unit of electricity is consumed to run the lab continuously for 20 hrs.
- * Very low infrastructure is needed e.g. only table space is required to place the lab.

9. Is Mobile Lab validated?

Yes, validated at following places:

- * AllIMS hospital, New Delhi under supervision of Dr. AK Mukhopadhy, head of lab medicine
- * Research & Referral Army Hospital , Delhi under supervision of Col. Renu Madaan

10. What is the life of battery?

2yrs. (Battery should not charge more than 5 hours)

11. Is Mobile Lab Certified?

Yes, it is **ISO 13485** certified, DSIR lab recognition

12. Is system open or closed?

Open system.

13. What is the Specification of Battery?

- i. Power supply: 230V AC \pm 10%, 50Hz.
- ii. Power back up: 8- Hours

14. What is the life of Centrifuge?

10yrs.

15. How much power is consumed by centrifuge?

230V AC \pm 10%, 50Hz.

16. What is the standby back up of Mobile Lab?

10-12 hrs.

17. How to cleanse in case of spillage during centrifuging blood sample?

Clean with spirited cotton

18. How Mobile Lab behaves during different environment (Stability of mobile Lab)

Is Mobile Lab Temperature Sensitive- No

Humid Temp. - No

Hot Temp. - No

Cold Temp.-No

19. Is Training Mandatory for Mobile Lab Operation?

Yes training is mandatory. Since Machine is user friendly, any person (LT, Nursing Staff) who can draw venous blood, can be trained easily.

Duration Of The Training: 7 - 10 days.

Module of the Training: Prepared by the R&D and Training Division of Accuster.

Venue For Training: Head office, Accuster Technologies Pvt. Ltd.

Trainers: Accuster's team

20. How to maintain biological waste?

After collection needle should burn with needle burner and syringe should cut with syringe cutter.

- * Sodium Hypo chloride solution for disinfectant of blood clot and serum before draining in sink.
- * Dispose biohazard poly bag for plastic materials after doing neutralization with Sodium Hypo chloride solution.
- * A hard box should be use to dispose hard waste materials.
- *

21. What element has been used in incubator?

Heating Material: Mica.
Heating Control: PID Controller

22. Is incubator insulated?

Yes.

23. What is the range of temperature maintenance in incubator?

37° C- 45°C

24. Is Mobile Lab Weather Proof?

Yes, Incubator is isolated; there is no effect of surrounding temperature during incubation.

25. Are reagent bottles in Mobile Lab leak- proof?

Yes

26. Is there any after Sales Service?

Yes, Accuster will be responsible for the after sales maintenance of the device.

- * Company is bound to deliver quality products and total quality management in every aspect.
- * The device comes with a 1 year warranty and will be replaced/ repaired by the Accuster Company.
- * AMC/CMC Service is also available
- * 24 Hour Customer Care Service
- * **Customer Care No : 91 124 6463802 Email : support@accuster.com**)

27. Can customers troubleshoot themselves?

Yes, customer can troubleshoot themselves and procedure is available in user manual of mobile lab.

28. What precaution to be taken while using Mobile Lab and performing tests?

Following are the list of precautions which should be taken while using the mobile lab-

- * Make sure D/W reading should be 250-350.
- * Prepare Working reagent according to creative writing
- * Prepare Calibrations according to calibration chart which is provided by the Accuster. 1X should be match with creative writing.
- * Cuvette should be fresh. Always check Cuvette walls, there should not be any scratch.
- * Reagent should be stored at recommended temperature in reagent box.
- * Always check reagents expiry
- * Check proper colour variation in the calibration sample.
- * Calibrate Micro pipette
- * Micro-Pipetting should be proper; Cross-check the volume measured in micropipette
- * After taking sample clean micro tips by tissue paper.
- * Place Cuvette in right direction.
- * Do not reuse Micro tips after taking the sample.
- * If you are doing glucose test micro tips can be reused for glucose test. If you are doing urea test that micro tips should not be use again(For sample & Reagent)
- * Incubation: time and temperature must be according to literature. Variation may vary results.
- * Always calibrate
- * Centrifuge the blood sample fully, clear separation of serum should be visible.
- * Always follow procedure mentioned in the User Manual

29. Is mobile Lab upgradable?

Yes, it is upgradable.

30. What is the specification of fuse used in mobile lab?

2 ampere.