



ACCUMAX PIPETTE Calibration Laboratories receive ISO 17025 Accreditation

ACCUMAX ranges of pipette are always known for its highly precise and accurate working. To meet the more demanding needs of our customers who are impacted by an increasing regulatory environment, ACCUMAX has pursued and was granted ISO 17025 accreditation. ACCUMAX pipettes are now calibrated in lab that has achieved the highest level of quality standard competency for calibration.

In fact, FINE CARE BIOSYSTEMS becomes the first company as a pipette manufacturer from ASIA-PACIFIC region to achieve this milestone.

➤ What is ISO 17025?

ISO 17025 is titled “General Requirements for the Competence of Testing and Calibration Laboratories” and has many of the same requirements as ISO 9001, but is more stringent in some specific areas.

This standard was developed specifically to give guidance to lab managers on both quality management and the technical requirements for the proper operation of a laboratory. Thus, ISO 17025 can be thought of as the technical compliment to ISO 9001. As a matter of fact, any organization who meets the requirements for ISO 17025 automatically is ISO 9001 compliant (but the converse is not true).

ISO 17025 is an international standard governing most of the important aspects of calibration processes. Laboratories who meet this standard should operate a quality control system, be technically competent and be capable of producing technically valid results. The intention of ISO 17025 is to provide a functional system or hierarchy of calibration laboratories in which end user can have confidence. Any calibration performed by an ISO 17025 accredited lab should:

- Be performed by competent technicians in a controlled environment.
- Use reference instruments or materials in which end user can have confidence.
- Operate an administrative quality system similar to ISO 9001.

ISO 17025 maximizes confidence in reference instrument and materials by requiring that they are traceable to SI (System International) units defined by international agreements at the BIPM in Paris.

➤ What differentiates ISO 17025 from ISO 9001?

ISO 9001 is a general quality system standard that can be applied to variety of different industries and applications. ISO 17025 and its accrediting body define the scope and capabilities of the laboratory seeking to get accreditation. Whereas ISO 9001 requires only that a facility follow standard procedures of a documented quality system, ISO 17025 demands that a facility demonstrate the highest level of technical competency.



➤ What is Measurement uncertainty?

Measurement uncertainty consists of parameters which prevent the true and exact value of a measurement from being known. In the case of gravimetric calibration of any pipettes, these parameters include the standard deviation of a measurement and the uncertainty of measurement of the balance apart from other components. Other components of uncertainty include variations in laboratory environmental conditions, such as water and air temperature, barometric air pressure and relative humidity. Corrections for evaporation, a pipette's coefficient of expansion, and water density also need to be considered.

➤ Why is measurement uncertainty important?

Measurement uncertainty does not imply doubt about the validity of a measurement. On the contrary, knowledge of uncertainty implies increased confidence in the validity of a measurement result. As a part of ISO 17025 procedure, ACCUMAX will report one measurement uncertainty per volume setting.

➤ What Are the Benefits to Implementing ISO 17025 as a manufacturer?

- Provides valid test data that the customer (whether internal or external) can trust
- Strong quality control, qualified processes and demonstrations of staff competence provide a greater degree of data defensibility
- Provide excellent third-party recognition to customers
- Lead to fewer re-analysis of samples. It will decrease customer complaints and should contribute to decreased turnaround time for analyses.
- Clear definition of roles, responsibilities, and authority, provide for greater efficiency in operation of the laboratory
- Audit and assessment activity by laboratory customers can be reduced through third party recognition

➤ How does ISO 17025 accreditations benefit ACCUMAX Customers?

Each year, thousands of ACCUMAX pipettes are getting calibrated before dispatching to companies/distributors and end users. ISO 17025 accreditation elevates this type of calibration to its highest quality assurance standard. By using ACCUMAX pipette calibrated in ISO 17025 accredited laboratory, end user can estimate a range of values within which the actual value is likely to remain with a quantifiable level of confidence.

Further, ACCUMAX has achieved ISO 17025 accreditation through NABL, National Accreditation Board for Testing and Calibration Laboratory- INDIA. NABL accreditation is recognized as the highest standard of lab certification as conducted and approved by their expert auditors. NABL is member of International Laboratory Accreditation Co-operation (ILAC) and Asia Pacific Laboratory Accreditation co-operation (APLAC).