

1. Pre-purchase Assessment
2. Installation and Calibration
3. Familiarization Period
4. Method Validation Plan\*
  - 4.1. Define quality requirement in the form of an allowable total error
  - 4.2. Select the appropriate types of experiments to reveal the expected types of errors
    - 4.2.1. Validation vs. Verification
    - 4.2.2. Types of Error
      - 4.2.2.1. Random Error (RE)
      - 4.2.2.2. Systematic Error (SE)
        - 4.2.2.2.1. Constant
        - 4.2.2.2.2. Proportional
    - 4.2.3. Types of Experiments for Verification of Manufacturer's Claims
      - 4.2.3.1. Linearity Experiment
      - 4.2.3.2. Precision Experiment for RE
      - 4.2.3.3. Comparative of Method Experiment for SE
  - 4.3. Collect necessary experimental data
  - 4.4. Use statistical tools to estimate the size of the analytical error
  - 4.5. Compare the observed errors with the defined allowable error
  - 4.6. Judge the acceptability of the observed method performance
  - 4.7. If acceptable, then perform reference range experiment
5. Introduction into Routine Service