

Calibration Syringe



DESCRIPTION

LUMED is proud to introduce our new aluminum calibration syringe. Designed to give many years of use, the aluminum syringe is available in 3 Liter size and comes with a universal connector.

Each Calibration Syringe has a label indicating the model, serial number, date and calibrated volume. The calibrated mechanical stop provides an accurate volume standard appropriate for spirometer calibration. The mechanical stop has its corresponding volume calibrated with a volumetric apparatus certified to meet the accuracy requirements of the National Bureau of Standards Circular 602. In addition, each syringe is 100% leak tested and traceable to NIST standards.

LUMED aluminum calibration syringe is CE marked.

High Accuracy at a Low Cost: The Calibration Syringe offers users a low cost method for calibrating the volume measurements for pulmonary function analyzers. Analyzers need to be periodically checked against a known volume to ensure that they are in calibration. It is poor practice to rely on an internal calibration procedure without a known volume standard. Studies have shown that pulmonary function analyzers may give erroneous results (N Engl J Med. 1973 Dec 13;289(24):1283-8).

Why a 3-Liter Syringe? A 3-liter size to meet international standards and requirements for spirometry equipment. In "Standardization of spirometry," the American Thoracic Society and the European Respiratory Society recommend the following:

With regards to volume accuracy, calibration checks must be undertaken at least daily, using a 3-L syringe discharged at least three times to give a range of flows varying between 0.5 and 12 L•s⁻¹ (with 3-L injection times of ~6 s and <0.5 s).

TECHNICAL FEATURES

REFERENCE	EP-AM192700
DESCRIPTION	Aluminum Calibration Syringe
CAPACITY	3.0 Liter
ACCURACY	+/-0.25%
MATERIAL	Aluminum
COLOUR	Light Blue