

Atomlab™ 500 Dose Calibrator



- Windows® 10 Operating System
- Microsoft SQL Database
- Communicates with most commercially available Nuclear Medicine management systems via Ethernet or Serial Port
- Pre-programmed for 98 most commonly used radionuclides; any 12 can be conveniently touch selected
- Extensive Isotope Libraries
- Automatic range selection up to 100 Curies of Tc-99m or 25 Curies of F-18
- Ultra-fast response
- Displays in Curies or Becquerels
- USB connectivity for external monitor, printer, and software upgrades
- Report and label printers available
- Small footprint economizes workspace
- Upgradeable at any time to include a wipe test counter
- Two-year warranty - US Only

Specifications:

All-In-One Flat Panel Touchscreen Display
Windows 10 Operating System with USB connectivity

Auxiliary Ports: USB, RS-232 and Ethernet

Isotope Selection Keys:

Twelve pre-programmed – Tc-99m, Tl-201, I-123, I-131, Cs-137, Co-57, Xe-133, Ga-67, In-111, F-18, Y-90s, Ba-133
25 user-defined isotopes and a full alphabetical list of 98 isotopes

Activity Range: 0.01 μ Ci to 100 Ci (.0004 MBq to 3700 GBq) of Tc-99m or 25 Ci of F-18

Energy Range: 25 keV to 3 MeV photons

Response Time: One to two seconds for doses greater than 200 μ Ci; three seconds for doses greater than 20 μ Ci; 50-100 seconds below 20 μ Ci of Tc-99m with default threshold; threshold adjustable to reduce counting time

Electrometer Linearity: \pm 1% or 0.2 μ Ci, whichever is greater, up to 40 curies of Tc-99m, \pm 1.5% up to 100 curies of Tc-99m

Electrometer Accuracy: \pm 1% or 0.2 μ Ci, whichever is greater

Overall Accuracy: \pm 3% or 0.3 μ Ci, whichever is greater; overall accuracy is affected by such factors as the accuracy of the specific source calibration, geometric variations due to sample volume or configuration, detector linearity, electrometer accuracy and readout accuracy

Repeatability: \pm 0.3% above 1 mCi short term (24 hr); 1% long term (one yr)

Detector:

Unit: Well-type pressurized ionization chamber, with Argon fill gas

Dimensions: 6" diameter x 15.5" h (15.24 x 39.37 cm)

Well I.D.: 2.75" dia x 10.5" h (7 x 26.7 cm)

Well I.D.: with Liner: 2.5" dia x 10.25" h (6.35 x 26 cm)

Shielding: .25" (6.3 mm) lead on all sides except top well opening; supplementary shielding available

Linearity: \pm 1% or 0.2 μ Ci, whichever is greater

Weight: 35 lb (16 kg)

Power Requirements: 100 to 240 VAC, 0.38 – 0.15 amps, auto switching

Certification: ETL listed to UL 60601-1 and to CAN/CSA C22.2 No. 601.1.M90 IEC 60601-1, IEC 60601-1-4 and IEC 60601-1-2 and CE marked

Warranty: Two years parts and labor - US Only



086-330

Atomlab™ 500 Dose Calibrator, 100-240 VAC
Includes: Smart Display, ionization chamber, RS-232 port, vial/syringe dipper and well insert

Optional Accessories:

086-241

Replacement Well Insert

086-242

Replacement Vial/Syringe Dipper

ALD-PS

Interlocking Shielding Rings - Positron Shield

086-509

Lineator

34-210

Calicheck Linearity Kit

086-423

Moly Assay Shield, Vial .3" lead

086-435

Moly Assay Shield, Syringe .3" lead

086-341

Dymo Label Printer

Includes: one roll 086-343 labels; two rolls 086-344 labels

086-343

Blank Label, Lg, 300/roll

086-344

"Radioactive" Label, Sm, 260/roll, 2/pkg

086-339

Ink Jet Printer (report)