"The Clinical Advantage"™

ATOMLAB™

DOSE CALIBRATORS • WIPE TEST COUNTER

PROVEN PERFORMANCE FOR FAST, ACCURATE MEASUREMENTS.

BRING SCIENCE, TECHNOLOGY AND APPLICATION TOGETHER...WITH BIODEX

ISO 9001:2008
ISO 13485:2003
CERTIFIED

BIODEX
www.biodex.com
1-800-224-6339
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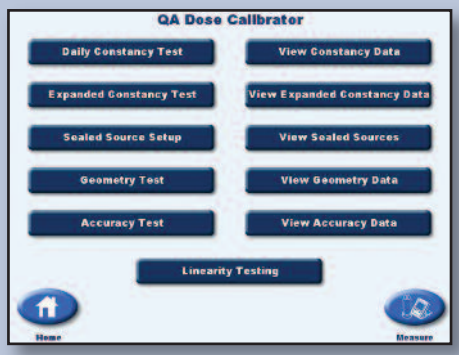
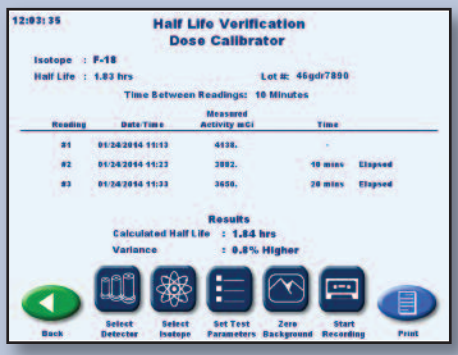
Atomlab 500 and 500*Plus* NEW Features

- An enhanced "zero background" feature allows users to configure system background count time for 30, 60 or 100 seconds. This new feature changes the counting time when selecting the "zero background" button in all functions including the moly assay application.
- Expanded isotope libraries in both the dose calibrator and wipe test counter to include Lu-177 and Ra-223 isotopes. Libraries include updated dial values, isotope ROIs and efficiency settings.
- Half-Life Verification App included in the nuclear pharmacy menu. Simply select the isotope, choose two or three readings for the calculation, and set the time between readings. The results show the calculated half-life and the variance to the real half-life for the selected isotope.

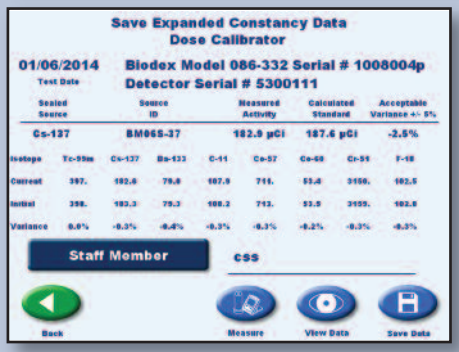
Proven Accuracy & Quality Assurance



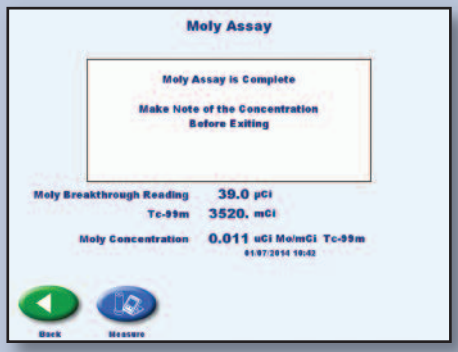
QA Dose Calibrator Screen – The extensive selection of quality assurance applications is readily available and simplifies regulatory requirements.



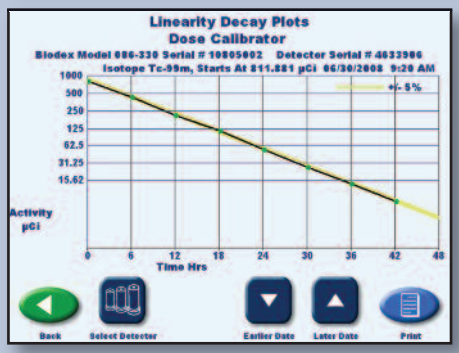
NEW Half-Life Verification Screen – Results show the calculated half-life and the variance to the published half-life for the selected isotope.



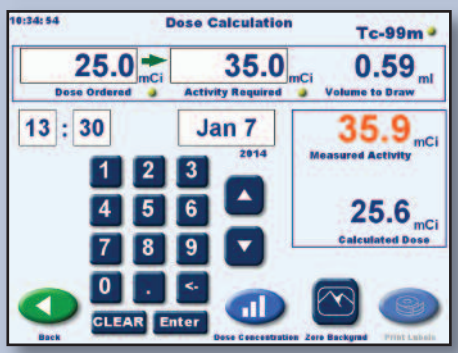
Constancy Data Screen – System stores and decay corrects multiple reference sources, compares the measured activity to the calculated activity and displays the percent variance. Data and source activity plots can be displayed, printed or stored.



Moly Assay Results Screen – Application simply guides you through the moly assay process making it quick and easy to perform, and displays the Moly concentration when test is complete. The system will prompt you if the results are not within regulatory limits.

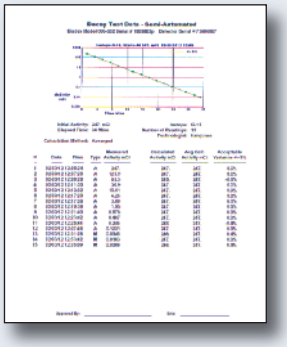


Linearity Decay Plots Screen – Linearity tests can be performed using the traditional manual method or with the fully automated program featuring the capability to capture readings from a source, while automatically recording at specific intervals.



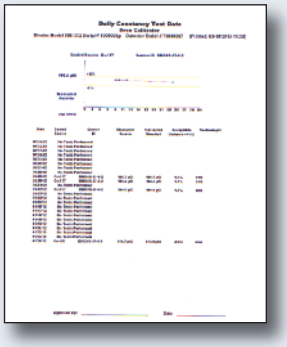
Dose Calculation Screen – All the information needed to draw doses efficiently is readily available on one screen. Easily performs pre- and post-decay calculations, volume calculations for specific times, and changes isotopes all with minimal screen touches. No calculators needed!

Quality Assurance Reports



Linearity Decay Plots

Report shows isotope, initial activity, elapsed time of readings, calculation method and variance, visually plotted.



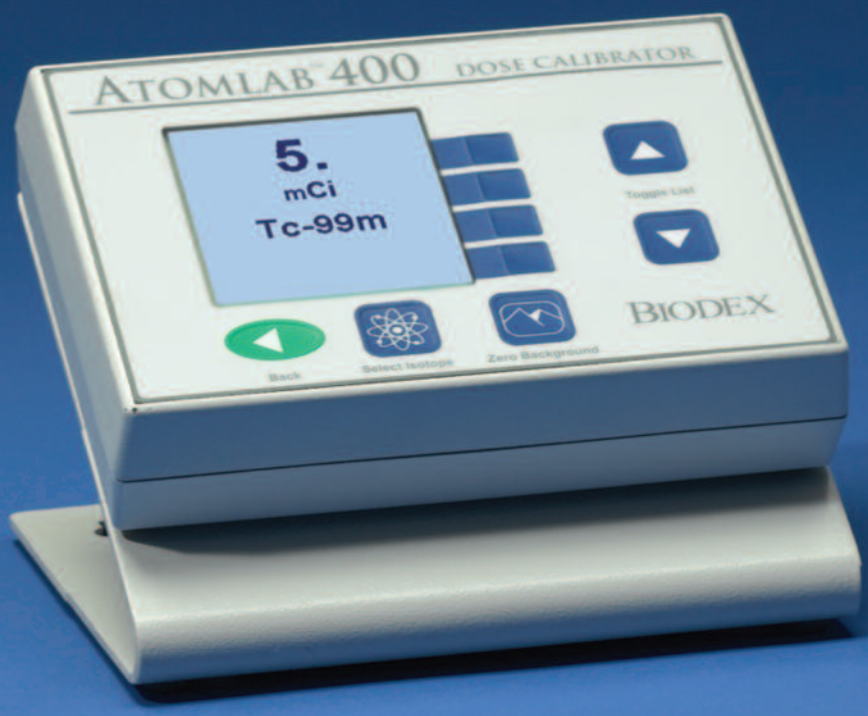
Constancy Activity Plots

An Expanded Constancy test allows the user to measure a long-lived source and up to 14 routinely used isotope settings, all in a matter of seconds with just one touch of the screen. The system stores and decay corrects multiple reference sources and compares the measured activity to the calculated activity for the daily constancy test.

Full-size samples can be viewed at www.biodex.com/dosecalibrators

ATOMLAB™ 400 Dose Calibrator

...fast, accurate radionuclide activity measurements with performance that easily complies with the most stringent regulatory requirements.



For NUCMED

For PET

For βETA

Designed for facilities receiving unit doses including PET and BETA.

- *Preprogrammed for 88 most commonly used radionuclides*
- *Automatic range selection; ranges up to 40 Curies of Tc-99m or 10 Curies of F-18*
- *Ultra-fast response*
- *Displays in Curies or Becquerels*
- *Remote Ionization Chamber*
- *RS-232 bi-directional serial communications port*
- *Self-Diagnostic Software*
- *Large, easy-to-read backlit LCD*
- *Small footprint economizes workspace*
- *Desktop or wall mount display*
- *Two-year warranty*

◀ *Atomlab™ 400 display can be mounted on a wall or placed on a desktop.*

Atomlab™ 400

The Atomlab™ 400 provides fast, accurate radionuclide activity measurements with performance that easily complies with the most stringent regulatory requirements.

The unit is simple to operate. There is a routine list of ten pre-programmed isotopes plus another seven that are user selected from the library. The library contains 88 isotopes listed alphabetically, including Lu-177 and Ra-223. Four isotopes are displayed at a time.

Activity is displayed on a LCD panel in either Curie or Becquerel units. Background correction is performed at the touch of a button. Range selection is automatic.

Activity measurements are performed by a microprocessor-controlled electrometer located within the detector assembly of the ionization chamber. The chamber is shielded with .25" (6.3 mm) lead. It can be located up to eight feet away from the display unit. Chamber bias is generated within the display unit by an electronic high voltage supply, eliminating the need for expensive battery changes.

The RS-232 port enables the Atomlab 400 Dose Calibrator to communicate with most commercially available nuclear medicine management systems.

Specifications featured inside back cover.

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ATOMLAB™ 500 Dose Calibrator

Proven performance for fast, accurate measurements. One dose calibrator for all your requirements.

UPGRADE-ABILITY

The Atomlab™ 500 Dose Calibrator can be upgraded to include a fully functioning Atomlab™ Wipe Test Counter. The "Smart Display" recognizes the chamber / detector configuration and instantly reconfigures the screen to the appropriate icons.

For NUCMED

For PET

For βETA

Easy to use, touch-screen display with intuitive menus.

- *Windows® Operating System*
- *Communicates with most commercially available NM management systems via Ethernet or Serial Port*
- *Pre-programmed for 89 most commonly used radionuclides; any 12 can be conveniently touch selected*
- *NEW Extensive Isotope Libraries include Lu-177 and Ra-223.*
- *Automatic range selection; ranges up to 100 Curies of Tc-99m or 25 Curies of F-18*
- *Ultra-fast response*
- *Displays in Curies or Becquerels*
- *USB ports accommodates a mouse, printing and software upgrades via memory devices.*
- *Report and label printers available*
- *Easy to use, large color touch screen display with intuitive menus*
- *Small footprint economizes workspace*
- *Upgradeable at any time to include a wipe test counter*
- *Desktop or wall mount display*
- *Two-year warranty*

Standard Apps for Atomlab 500 include:

- *Automated Quality Assurance Apps*
  - *Constancy and Expanded Constancy*
  - *Linearity and Auto Linearity*
  - *Accuracy*
  - *Geometry*
- *Nuclear Pharmacy Apps*
  - *Future dose and volume computation*
  - *Inventory control of 25 samples, correcting volume, activity and moly concentration*
  - *NEW Half-Life Verification*
  - *NEW Moly Assay*

One dose calibrator that can be used for a wide variety of Nuclear Medicine, PET and radioimmunotherapy applications.

Atomlab™ 500

The Atomlab 500 can be used for a wide variety of nuclear medicine, PET and radioimmunotherapy applications, with proven performance for fast, accurate measurements. The system consists of a low pressure ionization chamber, electrometer with extraordinary linearity and an auto-ranging color touch screen display. Additionally, there are advanced, but easy-to-use programs for nuclear pharmacy, radiochemistry and radiochromatography.

Activity measurements are performed by the microprocessor controlled electrometer located within the chamber assembly. The chamber is shielded with .25" (6.3 mm) lead. It can be located up to eight feet away from the display unit. Chamber bias is generated by an electronic high voltage supply, eliminating the need for expensive battery changes.

Every element of the design and technical development will increase dose accuracy, department productivity and regulation compliance. The attractive and intuitive human interface guides the user through each operation. Software can easily be updated via the Biodex website or by using a convenient memory card. The touch-screen display can rest on a bench or mount on the wall of a hot lab, hot cell or laminar flow hood.

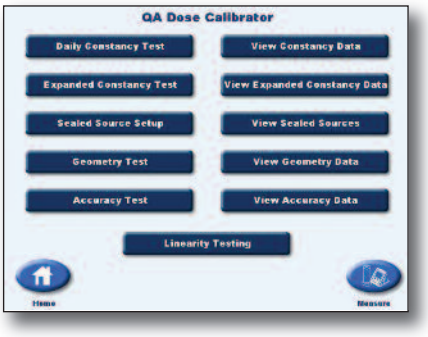
In addition to powerful self diagnostics, the Atomlab 500 includes an exclusive chamber monitoring technology to assure longer life and accuracy. Integrated pressure and temperature sensors feedback data so that the influence of gas pressure change will not effect an accurate reading.

OPERATION

The system is easy to use. There are 12 isotope selection touch keys pre-programmed for the most commonly used radionuclides. Any of those keys can be reprogrammed by the user for a desired isotope. There are 89 isotope-specific dial values listed in the library. Dial values can easily be changed if required.

Activity is displayed on the touch screen color display in either Curie or Becquerel units. Background correction is performed at the touch of a button. Range selection is automatic, from .01 microcurie to 100 Curies of Tc-99m or 25 Curies of F-18.

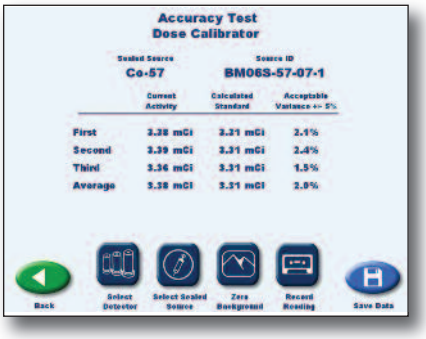
QUALITY ASSURANCE



The Atomlab 500 has been designed to make life easier. The extensive selection of quality assurance applications streamlines and simplifies hot lab administration requirements. The system stores and decay corrects multiple reference sources and compares the measured activity to the calculated activity for the daily constancy test.

Linearity tests can be performed in the traditional manual method or by a fully automated program that allows for readings from a source to be taken, and automatically recorded at specified intervals. The system will graph the results.

The attenuation tube test for linearity can be performed using software that will guide the user through the procedure, store the values and make all calculations.



ACCURACY

Atomlab Dose Calibrators have consistently proven to be highly accurate. Biodex and chamber manufacturer Sun Nuclear Corporation have participated in the isotope program sponsored by National Institute of Standards and Technology. Each month a certified isotope is received from National Institute of Standards and Technology and is measured in the Atomlab™ Dose Calibrator, producing direct traceability to National Institute of Standards and Technology.

DATA DOWNLOAD

The Atomlab™ Data Manager is available as an option. The Windows™ based utility allows wipe test and dose calibrator QA results to be downloaded using a USB/serial converter. The results can be viewed and printed from the data manager software as required. In addition, information stored in the data manager can be exported into Microsoft® Excel or to department management systems.

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ATOMLAB™ 500 DOSE CALIBRATOR

086-341, Optional label printer for Atomlab 500 and Atomlab 500Plus

Sample Labels for Future Dose with Dose in Chamber

Future Dose Record

Patient: _____ Procedure: _____

Id #: _____ Kit: _____

Prepared By: _____ Lot #: _____

Isotope: Tc-99m

Calc Admin Dose: 106.3 mCi at 11:30 EST 06/01/2010

Measured Activity: 119. µCi at 10:33 06/01/2010

Administered By: _____

CAUTION RADIOACTIVE MATERIAL

Radiopharmaceutical: Tc-99m _____

Calc Admin Dose: 106.3 mCi at 11:30 EST 06/01/2010

Measured Activity: 119. µCi at 10:33 06/01/2010

CAUTION RADIOACTIVE MATERIAL

Radiopharmaceutical: Tc-99m _____

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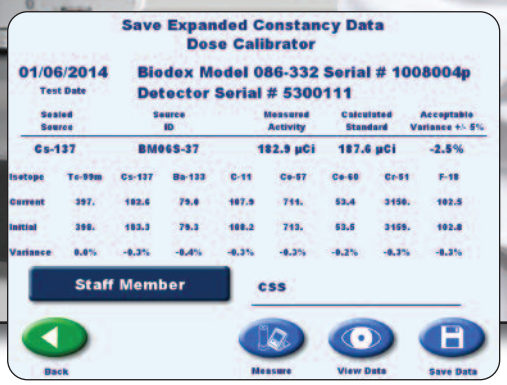
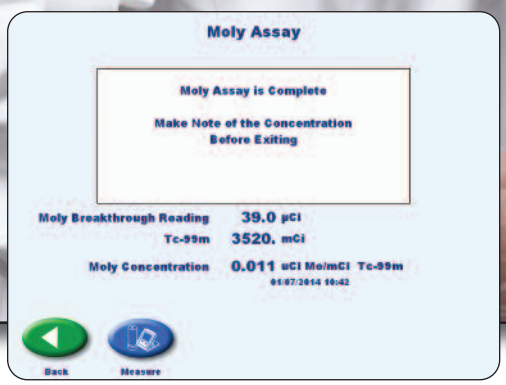
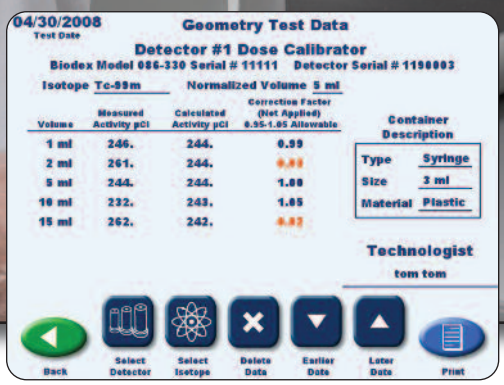


▲ *Constancy Data*

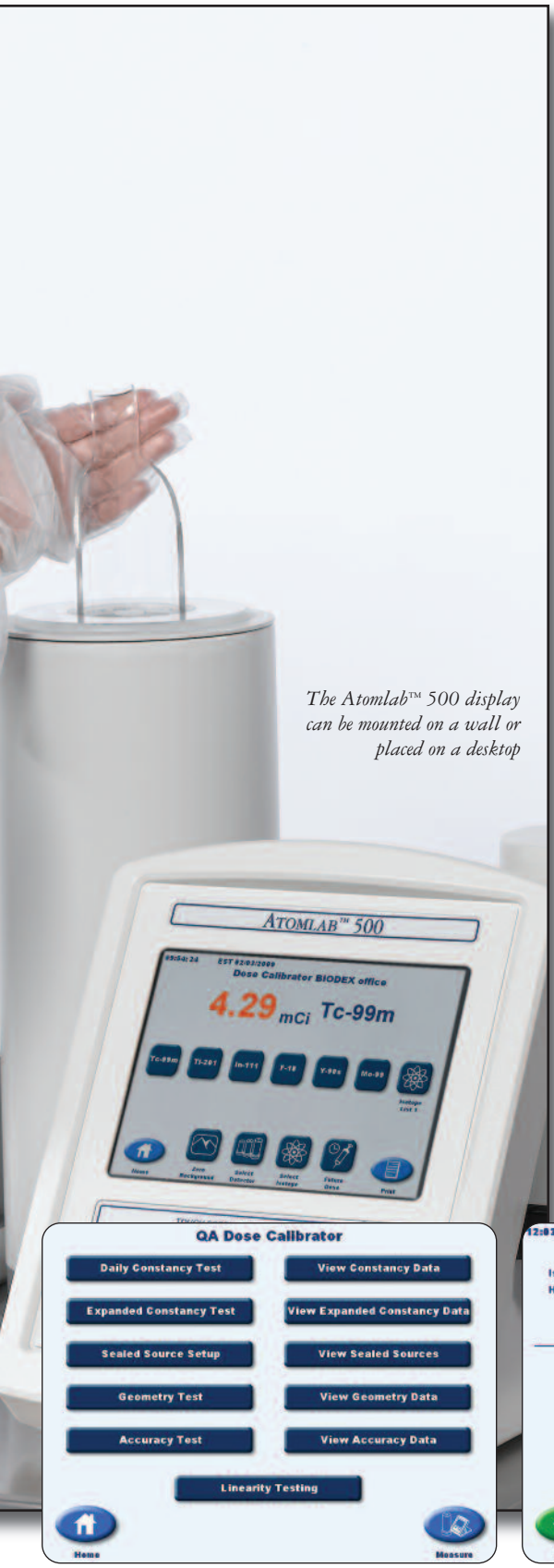


▲ *Moly Assay*

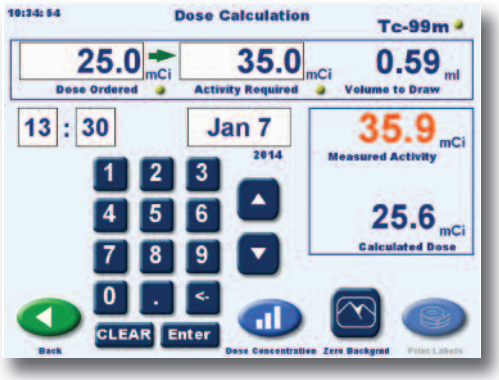


▲ *Geometry Test*

Easy to use large color touch screen with intuitive menus.



The Atomlab™ 500 display can be mounted on a wall or placed on a desktop



COMMERCIAL NUCLEAR PHARMACY

The Atomlab 500 Dose Calibrator features a nuclear pharmacy "Dose Calculation Screen" to meet the needs of a commercial nuclear pharmacy. All the information needed to draw doses efficiently is readily available on one screen. The feature easily performs pre- and post-decay calculations, volume calculations for specific times and isotope changes all with minimal screen touches. No calculators needed! Atomlab Dose Calibrators can read up to 100 Curies of Tc-99m, thereby eliminating the need for an aliquot preparation, a significant time saver every time a generator is milked.

INSTITUTIONAL NUCLEAR PHARMACY

The Atomlab 500 provides inventory control for 25 samples, storing and correcting the volume, activity, and moly concentration. The system will perform both volume and future dose calculations. In addition to inventory management, the Atomlab 500 provides quality assurance and record keeping functions. The inkjet printer allows hard copy records to be produced for all functions. The label printer allows the user to print labels for the syringe or vial.

RADIOCHROMATOGRAPHY

The radiopharmaceutical quality control program is exceptional. The Atomlab 500 performs all counting and calculations for paper chromatography tests, computing the percentages of free pertechnetate, hydrolyzed reduced Tc-99m and labeled radiopharmaceuticals.

RADIOCHEMISTRY

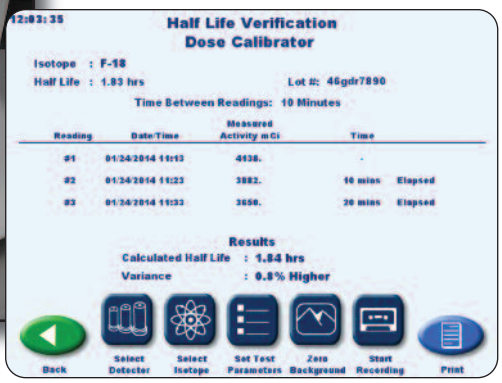
Up to seven ionization chambers, or six ionization chambers and a well counter can be connected via daisy chain to a single display. The activity in each detector can be selected and viewed from the single display.

COMMUNICATIONS

RS-232 port and two USB ports to communicate in real time with the most commercially available nuclear medicine management systems, connect to external monitor or upload software upgrades.

Specifications featured inside back cover.

▲ *QA Page*



▲ *NEW Half-Life*

EASY UPDATE

Your Atomlab 500 Dose Calibrator is upgradable. You can easily install software updates via the Biodex website or by using a convenient memory card.

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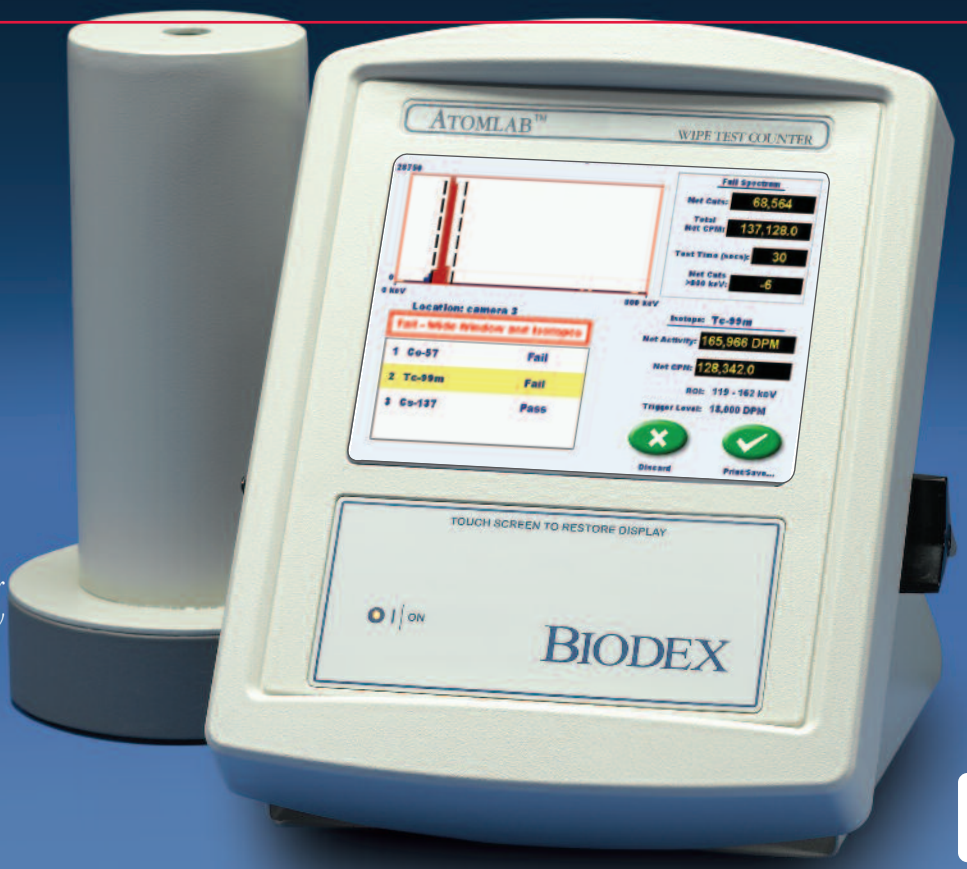
ATOMLAB™ Wipe Test Counter



UPGRADE-ABILITY

The Atomlab™ Wipe Test Counter can be upgraded to include a fully functioning Atomlab™ Dose Calibrator simply by adding a new chamber. The "Smart Display" detects which chambers are connected and instantly reconfigures the screen to the appropriate icons.

Eliminate the tedium of wipe testing.

An extensive selection of quality assurance applications streamlines and simplifies hot lab administration requirements.

- *Windows® Operating System*
- *Communicates with most commercially available NM management systems.*
- *USB Ports allow connection with external monitor and facilitate software upgrades*
- *64 Channel MCA*
- *Adjustable wide window and individual isotopes*
- *2x2 NaI drilled-well detector*
- *Remote shielded well*
- *Energy spectrums with individual ROI*
- *Ability to help identify isotopes causing contamination*
- *User-specific wipe locations and trigger levels*
- *Wipes that exceed trigger levels are immediately recognized*
- *Detailed wipe reports including cpm and dpm*
- *Wipe testing results stored*
- *Upgradable at any time to a dose calibrator by adding an ionization chamber*
- *Report and label printers available*
- *Two-year warranty*

Standard Apps for Atomlab Wipe Test Counter include:

- *Automated Quality Assurance Apps*
  - *Full Width at Half Max (FWHM)*
  - *Chi Square*
  - *Minimum Detectable Activity (MDA)*

The Atomlab Wipe Test Counter is easy to use, easy to understand, fast and dependable. A color touch-screen display utilizing intuitive software eliminates the tedium of wipe testing. Simply perform a daily calibration and background count, then count the wipe for each predetermined location. Trigger levels can be set for any isotope at any location including 200 dpm for iodine. In seconds the system will determine if the location is above or below the user defined trigger level.

When performing a wipe test, the full spectrum is displayed. A wide window that includes the isotope energies expected in a particular department is set by the user. The efficiencies of the isotopes selected for the window can be either factory defaults or user determined using an integrated detector efficiency program. Individual isotope ROIs along with the wide window can be set. This feature helps identify the isotope(s) causing contamination.

Easy to use, easy to understand.

Up to 50 wipe locations can be entered as a restricted area, unrestricted area, sealed source or package. The results are displayed in dpm, cpm, µCi or Bq.

The system consists of a lead shielded 2" x 2" sodium iodide (NaI) well detector and a 64 channel multi-channel analyzer. The displayed energy range (spectrum) is 0-800 KeV, which is typically found in nuclear medicine departments.

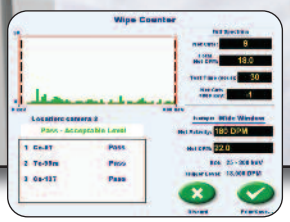
The wipe counter is designed to meet or exceed all NRC (10 CFR 35.70, 10 CFR 20.1906 and 10 CFR 35.2067) and state wipe test requirements. There are automated programs for the quality assurance functions: calibration, FWHM, chi-square and minimum detectable activity (MDA).

Wipe test results and QA test data can be stored in memory and printed at any time.

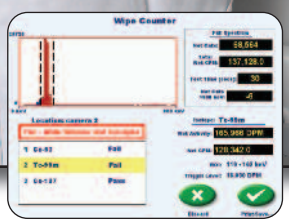
Specifications featured inside back cover.

The Atomlab™ Wipe Test Counter display can be mounted on a wall or placed on a desktop.

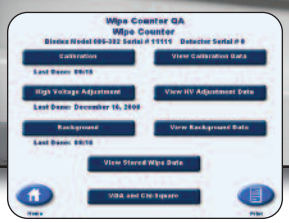
Chamber shown with optional lead shield.



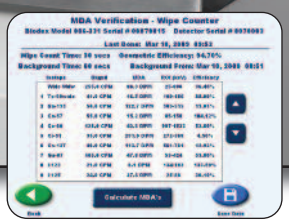
▲ *Wipe Test Passed*



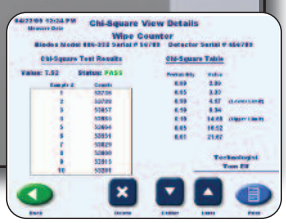
▲ *Wipe Test Failed*



▲ *QA Display (Wipe)*



▲ *MDA (Wipe)*



▲ *Chi Square*

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ATOMLAB™ 500*Plus* Dose Calibrator

Dose Calibrator + Wipe Test Counter

For NUCMED

For PET

For βETA

Atomlab™ 500Plus… comprehensive, easy-to-use and feature rich.

One solution for all your molecular imaging needs.

The Atomlab 500Plus Dose Calibrator brings it all together - science, technology and application.

The Atomlab 500*Plus* combines the industry gold standard Atomlab 500 Dose Calibrator and Wipe Test Counter, offering you a complete and cost-effective solution for all of your molecular imaging needs. The intuitive Atomlab 500*Plus* provides fast, accurate radionuclide activity measurements with performance that complies with the most stringent regulatory requirements. It's comprehensive, easy-to-use and feature rich. The software mirrors the way you think and work. It guides when necessary, but does not burden the advanced user. The touch-screen and easy-to follow on-screen prompts mean you won't need "cheat sheets."

When required, you can be confident that every operation is captured and documented. That documentation makes compliance a breeze. The Atomlab 500 Dose Calibrator is upgradable. You can easily install software updates via the Biodex website or by using a convenient memory card.

- *Windows® Operating System*
- *Communicates with most commercially available NM management systems via Ethernet or Serial Port*
- *Preprogrammed for 89 most commonly used radionuclides; any 12 can be conveniently touch selected*
- *Automatic range selection; up to 100 Curies of Tc-99m or 25 Curies of F-18*
- *Remote shielded ionization chamber*
- *Ultra-fast response*
- *Displays in Curies or Becquerels*
- *64 Channel MCA*
- *Remote shielded well*
- *Adjustable wide window and individual isotopes*
- *Energy spectrums with individual ROI*
- *Ability to help identify isotopes causing contamination*
- *2 x 2 NaI drilled-well detector*
- *User-specific wipe locations and trigger levels*
- *Wipes that exceed trigger levels are immediately recognized*
- *Detailed wipe reports including cpm and dpm*
- *Wipe testing results stored*
- *Intuitive software with extensive functionality*
- *USB port accommodates a mouse, printing and software upgrades via memory devices.*
- *Report and label printers available*
- *Easy-to-use, large, color touch-screen display with intuitive menus*
- *Small footprint economizes workspace*
- *Desktop or wall mount display*
- *Two-year warranty*

Standard Apps for Atomlab 500*Plus* include:

- *Automated Quality Assurance Apps*
  - *Constancy and Expanded Constancy*
  - *Linearity and Auto Linearity*
  - *Accuracy*
  - *Geometry*
  - *Full Width at Half Max (FWHM)*
  - *Chi Square*
  - *Minimum Detectable Activity (MDA)*
- *Nuclear Pharmacy Apps*
  - *Future dose and volume computation*
  - *Inventory control of 25 samples, correcting volume, activity and moly concentration*
  - *NEW Half-Life Verification*
  - *NEW Moly Assay*

Specifications featured inside back cover.

Atomlab 500Plus with additional chambers, wipe test counter and printer.

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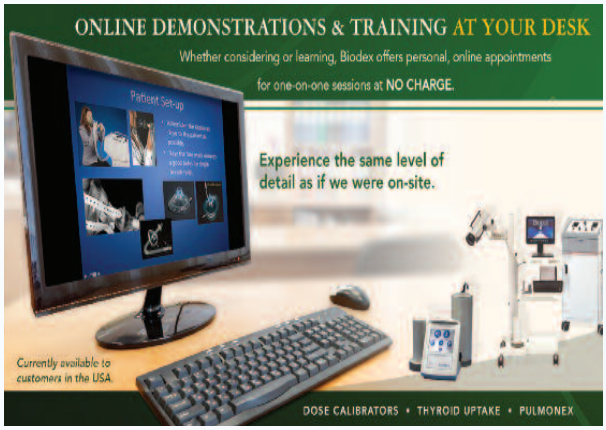
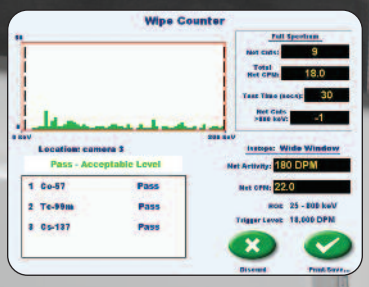
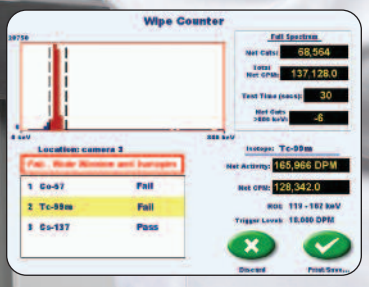
ATOMLAB™ 500*Plus* DOSE CALIBRATOR



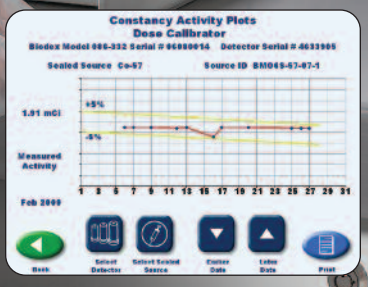


▲ *Wipe Test Passed*



▲ *Wipe Test Failed*

▲ *QA Display (Dose)*



▲ *Constancy Activity (Dose)*

A complete Hot Lab Management System.

*The Atomlab™ 500**Plus** display can be mounted on a wall or placed on a desktop*

▲ *Linearity Decay (Dose)*

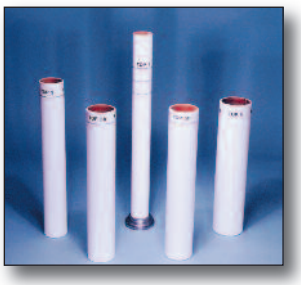
ACCESSORIES

MOLY ASSAY SHIELD

Moly Assay Shields are a convenient method to a unit dose. Whether working with syringes or vials, either unit will fit into the well chamber of any Atomlab Dose Calibrator.

086-435 Moly Assay Shield, Syringe, .3" lead
086-423 Moly Assay Shield, Vial, .3" lead

LINEATOR



The Lineator is a simple device to accurately and reliably verify the linearity of your dose calibrator. Test results are available in minutes, without waiting days for decay, making it feasible to perform a linearity test more often. Early identification can prevent problems before they occur.

086-509 Lineator

DOSE CALIBRATOR SHIELDING RINGS

The Dose Calibrator Shielding Rings offer an additional 2.25" of lead shielding around the remote chamber for working with 511 keV radionuclides, such as FDG F-18.

086-338 Shielding Rings, Interlocking, 2.25" lead *(Fits Atomlab Dose Calibrators 400, 500 and 500Plus.) For additional protection from high energy activity*

VIAL/SYRINGE DIPPER

This rugged,Vial/Syringe Dipper has a comfortable handle and it will hold 1 cc to 10 cc syringes or up to a 30 ml vial. Included with every Atomlab Dose Calibrator, the Vial/Syringe Dipper will also fit any well chamber with 2.5" x 10" interior dimension. The material used will not cause attenuation problems and is very resistant to breaking.

086-242 Dipper, Vial/Syringe

COPPER SYRINGE DIPPER

Designed for use with I-123 and In-111, the Copper Dipper removes variation in readings caused by attenuation differences from different materials and thicknesses used in syringes and vials.

086-242 Dipper, Vial/Syringe

www.biodex.com/dosecalaccessories

BIODEX
www.biodex.com
1-800-224-6339
Int'l 631-924-9000

Atomlab™ 400

SPECIFICATIONS:

Isotope Selection Keys: Ten pre-programmed – Tc-99m, Tl-201, Co-57, Cs-137, I-131, In-111, Ga-67, Xe-133, I-123, and Mo-99; seven additional keys for user-set isotopes; two new isotope keys and a full alphabetical list of 88 isotopes.
Activity Range: 0.01 µCi to 40 Ci (.0004 MBq to 1500 GBq) of Tc-99m or 10 Ci of F-18.
Energy Range: 25 keV to 3 MeV photons
Response Time: One to two seconds for doses greater than 200 uCi; three seconds for doses greater than 20 uCi; 50-100 seconds below 20 uCi of Tc-99m with default threshold, threshold adjustable to reduce counting time
Detector Linearity: ±1% or 0.2 µCi, whichever is greater
Electrometer Linearity: ±1% or 0.2 µCi, whichever is greater
Electrometer Accuracy: ±1% or 0.2 µCi, whichever is greater
Overall Accuracy: ±3% or 0.3 µCi, 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: ±0.3% above 1 mCi short term (24 hr); 1% long term (one yr); exclusive of background
Detector: Well-type pressurized ionization chamber, with Argon fill gas; well opening 2.75" (7 cm), well depth 10.25" (26 cm)
Detector Shielding: .25" (6.3 mm) lead on all sides except top well opening; supplementary shielding available
Power Requirements: 100 to 240 VAC, 0.6 – 0.3 amps, auto switching
Display Unit:
Dimensions: 6.75" w x 6" depth x 5" h (17.1 x 15.3 x 12.7 cm)
Weight: 3.6 lb (1.64 kg); desktop or wall mountable
Detector Unit:
Dimensions: 6" dia 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)
Lead Shielding: .25" thick (6.3 mm)
Weight: 35 lb (16 kg)
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

CE 0413 Intertek

086-335 Dose Calibrator, Atomlab™ 400, 100-240 VAC
Includes: Smart Display, ionization chamber, RS-232 port, vial/syringe dipper and well insert.

Atomlab™ 500

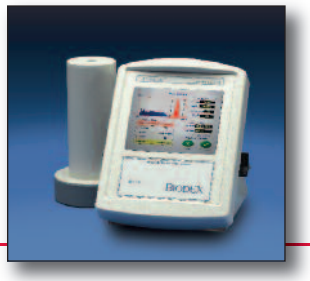
SPECIFICATIONS:

Display: LCD Touch Panel 6.5" x 5", function keys are displayed for the operation being performed
Dimensions: 9.5" w x 12" depth x 12" h (24.1 x 30.5 x 30.5 cm)
Weight: 6.3 lb (2.9 kg); desktop or wall mountable
Line Voltage: 100 to 240 VAC, auto selectable by the power supply
Line Frequency: 50/60 Hz, detachable line cord, built-in EMI filter and transient suppression
Auxiliary Port: Two USB ports, one RS-232 port
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 89 isotopes.
Activity Range: 0.01 uCi 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 uCi; three seconds for doses greater than 20 uCi; 50-100 seconds below 20 uCi of Tc-99m with default threshold; threshold adjustable to reduce counting time
Detector Linearity: ± 1% or 0.2 µCi, whichever is greater
Electrometer Linearity: ± 1% or 0.2 µCi, whichever is greater, up to 40 curies of Tc-99m, ± 1.5% up to 100 curies of Tc-99m
Electrometer Accuracy: ± 1% or 0.2 µCi, whichever is greater
Overall Accuracy: ± 3% or 0.3 µCi, 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: ± 0.3% above 1 mCi short term (24 hr); 1% long term (one yr)
Detector: Well-type pressurized ionization chamber, with Argon fill gas; well opening 2.75" (7 cm), well depth 10.25" (26 cm). Up to seven chambers can be serially connected to one display
Detector Shielding: .25" (6.3 mm) lead on all sides except top well opening; supplementary shielding available
Power Requirements: 100 to 240 VAC, 0.38 – 0.15 amps, auto switching
Detector Unit:
Dimensions: 6" dia 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)
Lead Shielding: .25" lead (6.3 mm)
Weight: 35 lb (16 kg)
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

CE 0413 Intertek

086-330 Dose Calibrator, Atomlab™ 500, 100-240 VAC
Includes: Smart Display, ionization chamber, RS-232 port, vial/syringe dipper and well insert.

Atomlab Dose Calibrators utilize low-pressure chambers and are shipped air or ground as standard goods.



Atomlab™ WIPE TEST COUNTER

SPECIFICATIONS:

Display: LCD Touch Panel 6.5" x 5", function keys are displayed for the operation being performed
Dimensions: 9.5" w x 12" h x 12" d (24.1 x 30.5 x 30.5 cm)
Weight: 4.2 lb (1.9 kg)
Line Voltage: 100 to 240 VAC, auto selectable by the power supply
Line Frequency: 50/60 Hz, detachable line cord, built-in EMI filter and transient suppression
Auxiliary Port: Two USB ports, one RS-232 port
Memory: Stores wipe, calibration, background, high voltage, isotope specification, isotope efficiency, Chi-Square testing results, technologist list, wipe locations list and latest MDA calculation. Results can be displayed and printed.
Preset Radionuclides: 27 including Tc-99m, Co-57, Cs-137, Ga-67, Tl-201, I-123, I-125, I-131, In-111, F-18

WELL COUNTER
Dimensions: 6" d x 11" h (15.24 x 27.9 cm)
Weight: 29 lb (3.2 kg)
Detector: 2" x 2" NaI (Tl) integral line scintillation detector with a 0.75" dia x 1.44 " depth well (1.9 x 3.7 cm)
Style: Remote Detector
Channels: 64
MCA: Integral to Well Counter
Spectral Resolution: FWHM 10%
Count Rate: (Maximum) 30,000 cps
Lead Shielding: 0.5" (1.2 cm) integral lead shield

Certification: ETL listed to UL 60601-1 and to CAN/CSA C22.2 No. 601-1M90, IEC 60601-1, IEC 60601-1-4 and IEC 60601-1-2 and CE marked
Warranty: Two years parts and labor

CE 0413 Intertek

086-331 Atomlab™ Wipe Test Counter
Includes: Smart Display, well counter and RS-232 port.

Atomlab™ 500*Plus*

SPECIFICATIONS:

For specifications and features, see the Atomlab™ 500 Dose Calibrator and the Atomlab Wipe Test Counter. The Atomlab™ 500Plus incorporates the features and specifications of both units in one compact footprint.

CE 0413 Intertek

086-332 Dose Calibrator, Atomlab™ 500*Plus*, 100-240 VAC
Includes: Smart Display, ionization chamber, well counter, RS-232 port, vial/syringe dipper and well insert.

RELATED PRODUCTS

Related: Dose Calibrator
Data Manager
086-333 Software, Atomlab 500 Data Manager
086-336 Chamber, Dose Calibrator
075-594 Chamber, Wipe Test
086-338 Shielding Rings, Interlocking, 2.25" lead
For additional protection from high energy activity
086-509 Lineator
086-435 Moly Shield, Syringe, .3" lead
086-243 Copper Dipper, Vial/Syringe
086-423 Moly Shield, Vial, .3" lead
086-341 Printer, Label, Dymo
Includes one roll 086-343 labels; two rolls 086-344 label
086-339 Printer, Ink Jet (report)
086-334 Cable, European to Wall Outlet

Replacement:
086-242 Vial/Syringe Dipper
086-241 Well Insert
086-343 Label, Blank, Lg, 300/roll
(For Dymo Printer, 086-341)
086-344 Label, "Radioactive", Sm, 260/roll, 2/pkg
(For Dymo Printer, 086-341)

Related: Wipe Test Counter
063-139 Rod Source, Cs-137, Calibrated, 0.1 µCi
075-596 Lead Shield, Wipe Test Chamber
006-350 Wipe Test Kits, 500/pkg
086-342 Well Liners, Disposable, 100/pk

An industry exclusive two-year warranty is standard.

For physics tests, sample reports, testimonials and warranty information, visit us on the web www.biodex.com/dosecalibrators

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