

# PET DOUBLE-ENDED PIG AND SHIPPING SYSTEM

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## OPERATION MANUAL

001-793

001-794



# BIODEX

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**This manual contains operation procedures for the following:**

001-794            Shipping System, PET, Double-Ended Pig  
001-793            Pig, Double-Ended, PET

**INTRODUCTION**

The Biodex PET Double-Ended Pig and Shipping System is designed for use with 5 cc syringes with needles. It accommodates doses up to 475 mCi of FDG F-18.

Place a Unit Dose Pig containing a 5 cc syringe inside the case, and it is secure for safe transport. The pig is constructed in three sections of .6" (1.5 cm) lead enclosed in durable plastic. The dose is administered without removing the syringe from the shield.

The rugged case is lightweight and compact. A twist-clasp top closure ensures the transport case remains secure throughout transport. Security tags or zip ties must be used as tamper evidence and assist in keeping the case secure. Fold-down handles allow for easy lifting and stacking.

**NOTE:** *All components of the shipping system must be used, and packing instructions must be followed, in order for the 7A certification to be valid.*

**DIRECTIONS FOR USE**

*(See Figures 1 and 2.)*

1. Remove the top section (has the metal section) of the Double-Ended Pig and place the sections behind an L-Block Shield.
2. Remove the bottom end cap. Insert the absorbent material. To insert, roll (do not crease) the absorbent material and slide it down into the needle end section of the pig. The syringe's needle and cap goes into the center of the rolled absorbent material. Put the bottom end cap back on the center section.

**NOTE:** *In order to comply with DOT and IATA shipping regulations, the absorbent material supplied must be inserted into the needle end of the Pig of your PET Shipping System as shown in Figure 2. This material ensures that, in the event of a leak, all liquid material will be contained and absorbed. To purchase additional absorbent material for you PET Shipping System, contact Biodex Medical Systems Sales Dept. at (800) 224-6339 (In NY or Int'l (631) 924-9000.*

3. After assaying the dose in a dose calibrator, place the syringe containing the PET isotope inside the pig. The syringe can have a luer cap or needle with cap.
4. Carefully replace the pig top, twisting it clockwise to tighten. Make sure you do not hit the syringe plunger while tightening the top. You must hand tighten to seal. The O-ring gasket must be present as part of the seal.
5. Place the Double-Ended Pig back into the Shipping System the metal top of the pig faces up.
6. Close the shipping container. To lock, place each of the two hasps into the respective bracket and turn the twist cam until tight.
7. You must use a wire seal, or zip-tie, through the hasp and standoff to secure the container. If you receive the container with the seal broken, you will know that it has been opened or tampered with.
8. If you have a PET transport cart, you can secure the shipping container to the cart for transport. Place the bungee cord over the metal container and secure. The Velcro Hook and Loop Fastener® can now be strapped around the container. You can stack more than one container on the cart by adjusting the straps to fit the number of containers.

## PET DOUBLE-ENDED PIG AND SHIPPING SYSTEM



Figure 1. Single Shipping System (#001-794).

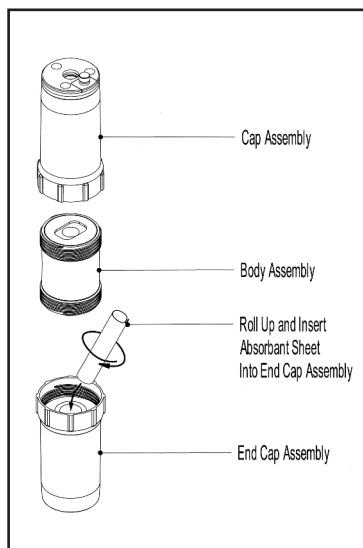
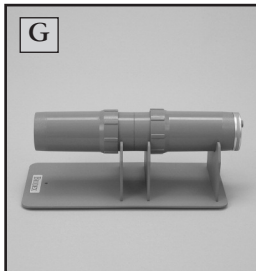
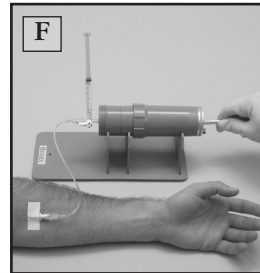
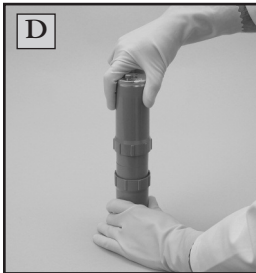
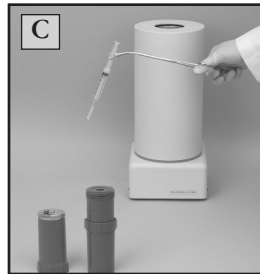
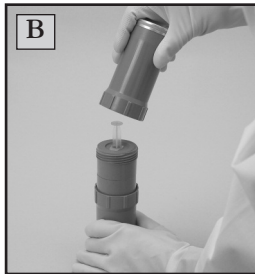
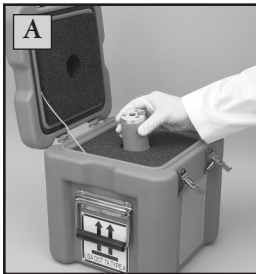


Figure 2. The absorbent sheet must be placed inside the pig as shown above.

## DIRECTIONS FOR USE OF THE DOUBLE-ENDED PIG 001-793:

1. Remove the Double-Ended Pig from the compact shipping container. (See Figure A.)
2. Place behind an L-Block Shield.
3. Unscrew the top. (See Figure B.)
4. Remove the syringe and place into a dose calibrator. (See Figure C.)
5. Return the syringe to the pig and put the top back on. (See Figure D.)
6. Transport the pig to the patient injection area. (See Figure E.)
7. Place the pig into the Pig Cradle so the top section of the pig is over the long section of the cradle. (See Figure F.)
8. Remove the bottom of the pig and connect to your preferred injection device, butterfly, etc. (See Figure G.)
9. Open the plunger lock located on the top section by pulling the slide toward the edge of the pig. With a pen-like device, push the tungsten plunger to administer the dose. (See Figure G.)
10. Recap the syringe.
11. Put the bottom back on the pig.
12. Return the pig to the compact shipping container. (See Figure H.)



## CLEANING INSTRUCTIONS

As needed, cleanse the pig(s) and container with a bleach solution. Rinse and dry each section and container before storing.

## SPECIFICATIONS

*001-793 Double-Ended PET Pig*

**Dimensions:** 9.5" h x 2.3" dia at maximum point (24 x 5.8 cm)

**Shielding:**

**Sides:** .6" thick (1.5 cm) lead

**Bottom:** 1.44" thick (3.7 cm) lead

**Top:** .875" thick (2.2 cm) tungsten

**Weight:** 9 lb (4 kg)

*001-794 PET Shipping System, Double-Ended Pig*

**Dimensions:**

**Container:** 11.75" l x 11.75" w x 12.5" h (29.8 x 29.8 x 31.8 cm)

**Cubic Feet:** ~1 cu ft (0.3 cu meters)

**Weight:** 36 lb. (16.3 kg)



**Regulations:**

- Meets DOT II Type A packaging requirements when shipping up to 475 mCi of FDG F-18.
- Complies with USA DOT 7A Type A Radioactive Material Requirements
- Meets IATA Dangerous Goods Regulations, 48th Edition Sections 5.0.4.3, 10.5, and 10.6.1 thru 10.6.3.5.

Compliance reports for radioactive materials packaging are available upon request or visit our website: [www.biodex.com](http://www.biodex.com).

**Replacement:**

001-771 Sheets, Absorbent, 100/pkg

001-726 Tags, Wire Security, 25/pkg

**Options:**

001-797 Pig Cradle



*Certified Quality Management System*

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