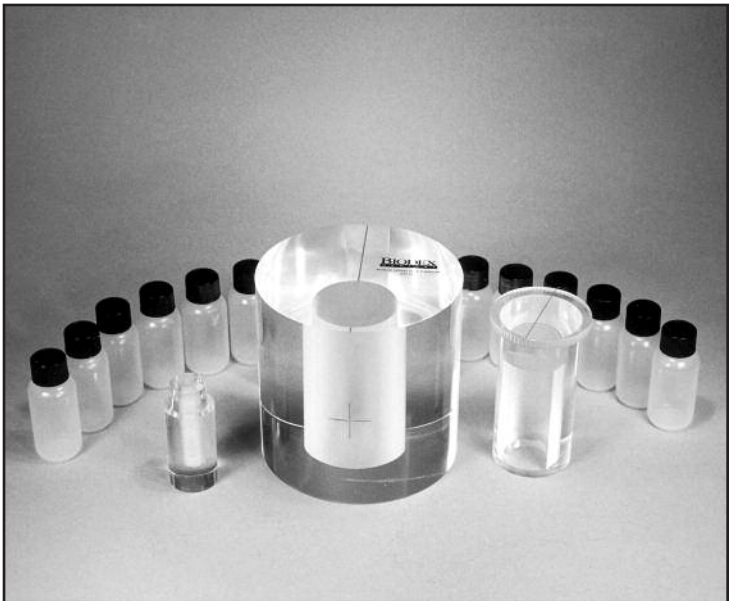


THYROID UPTAKE NECK PHANTOM

INSTALLATION/ OPERATION MANUAL

043-365



BIODEX

Biodex Medical Systems, Inc.

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THYROID UPTAKE NECK PHANTOM

This manual covers installation and operation procedures for the following product:

#043-365 Neck Phantom, Thyroid Uptake

Introduction

The Neck Phantom is designed to simulate a patient's neck. The phantom is constructed of lucite. It has a two part insert that allows counting from a bottle, vial or capsule. A capsule holder is supplied to enable the user to count capsules directly, without having to dissolve them. The phantom's cylinder and carrier have scribelines for accurate alignment. A flat surface on the cylinder allows either vertical or horizontal positioning. Twelve 30 ml bottles are included with the phantom.

Proposed by the International Atomic Energy Agency (I.A.E.A.) and the American National Standards Institute

Operating Instructions

1. Dissolve (or dilute) the radioactive standard (capsule or liquid) up to 30 ml in one of the polyethylene bottles supplied.

NOTE: *It may be necessary to add a little hydrochloric acid to dissolve the capsule.*

2. After filling the polyethylene bottle, cap it and tighten securely.
3. Place the polyethylene bottle containing the standard into the carrier and insert into the body of the phantom. Be sure that the bottle is positioned near the perimeter of the phantom.



4. Turn the carrier so that the red line on the top of the carrier is aligned with the red line on the phantom. (See diagram.)
5. When properly aligned, the phantom is ready for use.

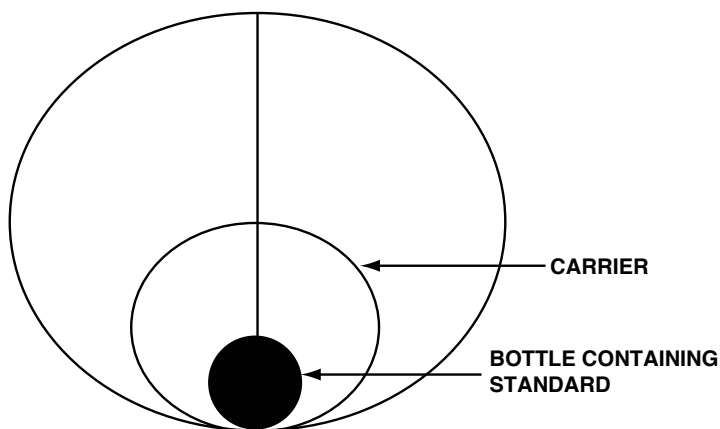


Diagram shows proper alignment of standard bottle in carrier.

The front of the phantom is also marked to ensure proper alignment of bottle, phantom, and detector. The small flat edge at the rear of the phantom permits the phantom to be used horizontally without rolling.

NOTE: A lucite capsule holder, in the form of a dummy bottle, is included for use to count the stock of capsules to ascertain their relative activity. Counting a capsule in this holder is an alternative method to diluting the capsule.

Maintenance

As needed, wipe down the Neck Phantom with a damp rag and mild detergent solution.



WARNING: To preserve the life of the phantom, clean only with detergent or decontaminating solutions. Do not use organic solvents.



AVERTISSEMENT: Afin de maintenir la durée de vie du fantôme, ne nettoyer qu'avec des solutions détersives ou de décontamination. Ne pas utiliser de solvant organique.

REPLACEMENT

043-361 Polyethylene Bottles, 30 ml, pkg. of 50

Specifications

Dimensions: 5" h x 5" dia (127 x 127 cm)

I.D.: 4" h x 2" dia (10 x 5 cm)

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Certified Quality Management System

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