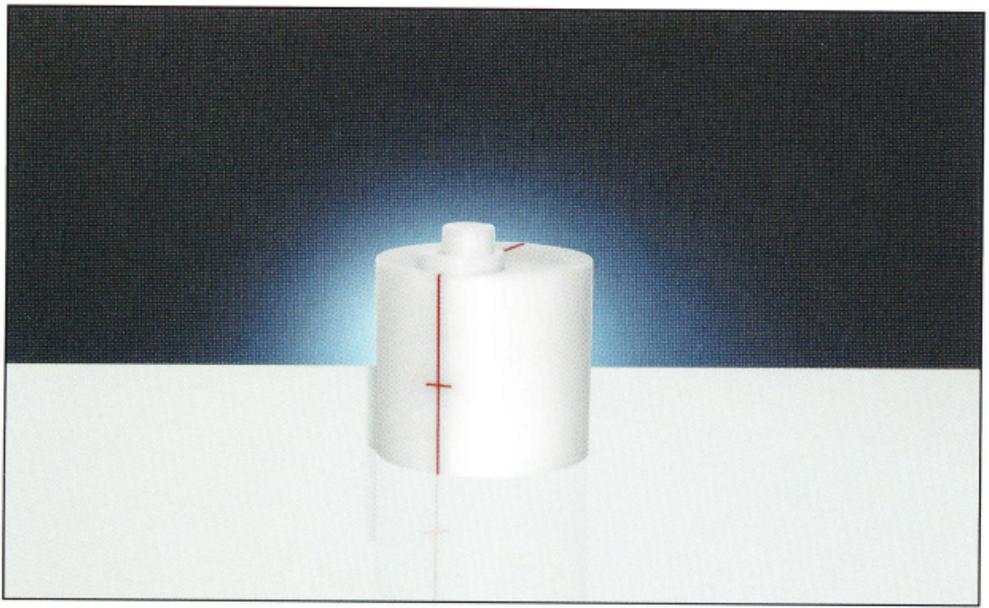


Thyroid Uptake Neck Phantom



Cylindric polyethylene phantom for realistic simulation of a thyroid for quality control of uptake measuring devices

Features

- ▶ Simulates the thyroid with neck realistically
- ▶ Made of polyethylene instead of acrylic glass
- ▶ Can be used with a vial, a test tube or a capsule with radioactive material

The thyroid uptake neck phantom is used to check the proper performance of uptake measuring devices by simulating a thyroid in its anatomic position with respect to realistic absorption and scattering conditions in tissue. The phantom consists of a polyethylene cylinder (130 mm diameter by 120 mm height) and two inserts. Polyethylene with a density of 0.96 g/cm^3 imitates the absorption and scattering conditions more realistically than acrylic material.

The eccentric hole in the phantom cylinder accommodates two inserts to measure the initial pulse rate of radioactive material in a vial, a test tube or a capsule. The position of the thyroid in the phantom and by this the source distance can be varied by turning one of the inserts, supplied with an eccentric hole. There are mark lines on the phantom surface as an adjustment aid. The holes have the following dimensions:

- ▶ Hole in the phantom body:
52 mm diameter by 94 mm height
- ▶ Hole in the insert for a test tube:
33 mm diameter by 97 mm height
- ▶ Hole in the insert for a capsule:
8 mm diameter by 97 mm height

The total weight of the phantom with inserts is approx. 1.5 kg.

Ordering Information

L991220 Thyroid uptake neck phantom