

PET Emission Phantom acc NEMA NU2-2001



Body-mimicking emission phantom for realistic quality control of PET scanners acc NEMA NU2-2001

Features

- ▶ Simulates realistic conditions by utilizing a body-shaped acrylic vessel
- ▶ Includes a cover with six spherical inserts and an absorber
- ▶ Inserts can be filled and emptied from outside
- ▶ Complies with Section 7 of NEMA NU2-2001

The PET Emission Phantom L981606 complies with the phantom design of the NEMA standard NU2-2001. The phantom is described in Section 7 “Image quality, accuracy of attenuation and scatter corrections.” It has the same asymmetric shape as the CEC and the IEC body phantom and simulates the human body in the range of thorax and abdomen. A circular cover with six mounted, hollow glass spheres completes the phantom. The inner active diameters of the spheres are 10 mm, 13 mm, 17 mm, 22 mm, 28 mm and 37 mm and the wall thickness is approx. 1 mm. The hollow spheres can be filled with water for cold lesion imaging and with ^{18}F for hot lesion imaging. They can be filled or emptied easily from outside with the help of a syringe. To simulate the attenuation of a lung, a cylindrical insert of 50 mm outside diameter is attached to the center of the cover with hollow spheres.

Ordering Information

L981606 PET emission phantom,
complete set acc NEMA NU2-2001

Option

L522020 Storage and carrying case