

Micro-PET NEMA-NU4 Scatter Phantoms

According to the NEMA standard NU 4-2008, this phantom provides the opportunity to evaluate the performance of Micro-PET systems.

The NEMA NU 4-2008 standard proposes a standardized methodology for evaluating the performance of positron emission tomographs (PET) designed for small animal imaging.

The phantoms for scatter fraction, count losses and random coincidence measurements with μ PET systems are designed according to the NEMA NU4-2008 (section 4) specifications.

The phantoms are made from High density Polyethylene. Three different types of phantoms are available, that represent a mouse, rat or monkey size.

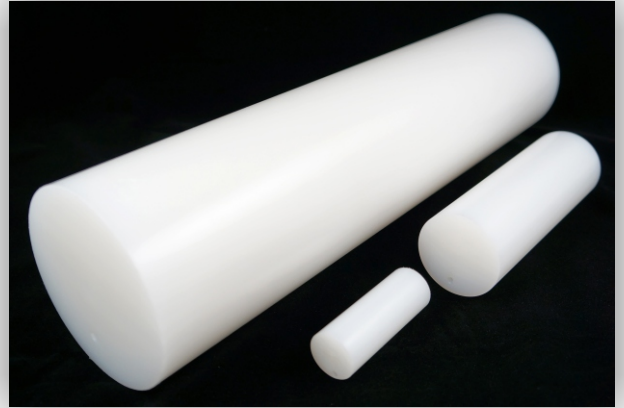
Specifications

Mouse like Phantom
 Outer diameter 25 mm
 Length 70 mm
 bore for line source: 3.2mm, 10 mm off center

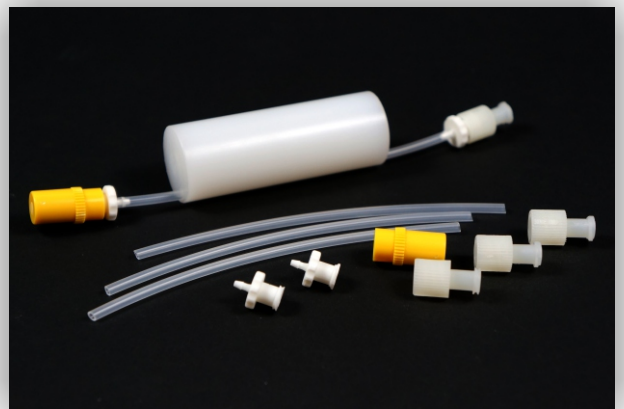
Rat like Phantom
 Outer diameter 50 mm
 Length 150 mm
 bore for line source: 3.2mm, 17.5 mm off center

References:

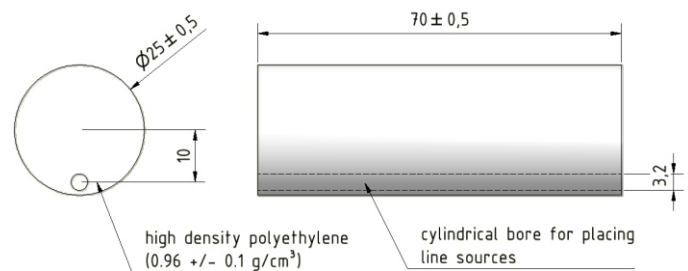
- [1] Performance Measurements for Small Animal Positron Emission Tomographs; NEMA Standards Publication NU 4-2008



*Micro-PET NEMA-NU4 Scatter Phantoms
 Mouse, Rat and Monkey Size*



The Phantom comes with PE tubes and adapters (luer/lock) to connect standard syringes



Dimensions of the Mouse-size Phantom (in mm)