

# 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  $\mu$ 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

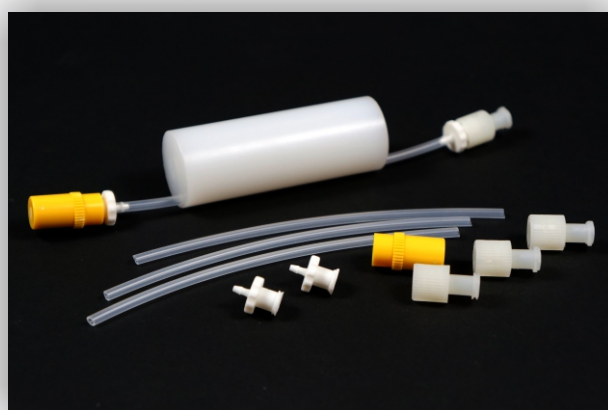
Outer diameter ..... 50 mm  
Length ..... 150 mm  
bore for line source: ..... 3.2mm, 17.5 mm off center

### References:

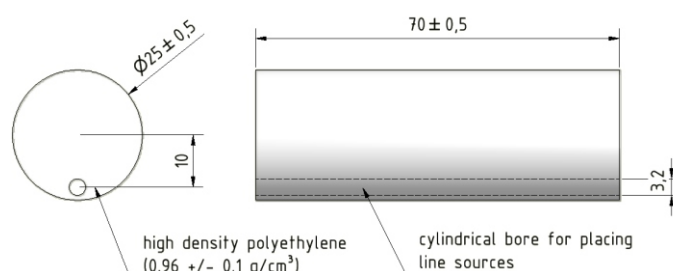
- [1] Performance Measurements for Small Animal Positron Emission Tomographs;  
NEMA Standards Publication NU 4-2008



*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)*