

Micro-PET NEMA-NU4 Scatter Phantoms

QRM-MicroPET-Scatter

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

Monkey like Phantom

Outer diameter 100 mm
Length 400 mm
bore for line source: 3.2mm, 30 mm off center

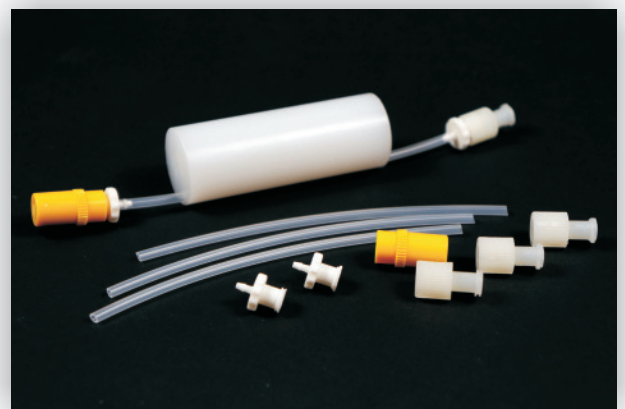
The NEMA NU 4-2008 report is not part of the phantom described here. It has to be ordered separately at www.nema.org!

References:

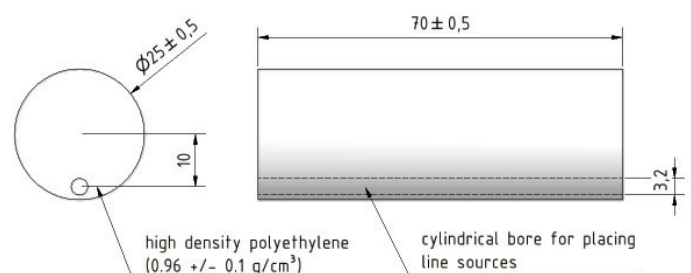
- [1] Performance Measurements for Small Animal Positron Emission Tomographs;
NEMA Standards Publication NU 4-2008



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)