

# 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.

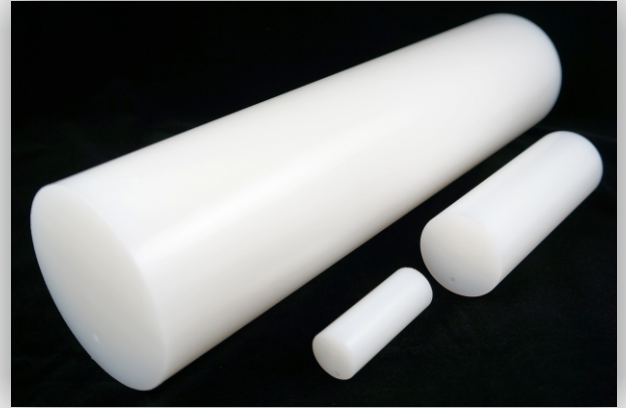
### Specifications

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

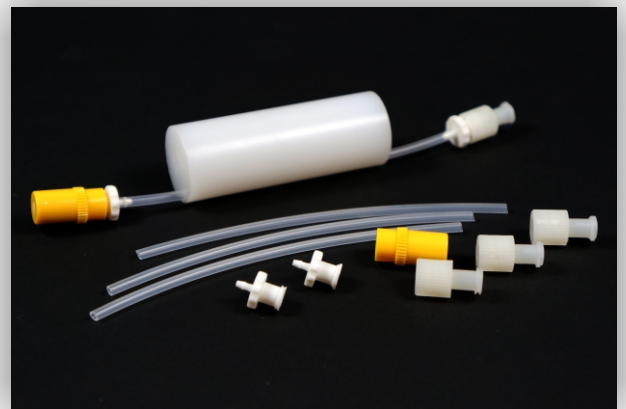
Rat like Phantom  
 Outer diameter ..... 50 mm  
 Length ..... 150 mm  
 bore for line source: ..... 3.2mm, 17.5 mm off center

### References:

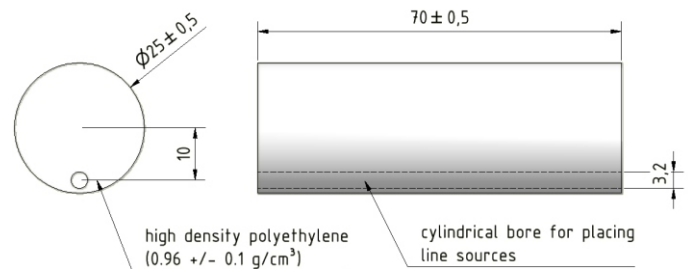
- [1] Performance Measurements for Small Animal Positron Emission Tomographs; NEMA Standards Publication NU 4-2008



*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)*

**深圳市展业达鸿科技有限公司**  
 吕先生: 15920060912 (微信同号) 0755-22934005 (座机)  
 地址: 深圳市福田区八卦二路八卦岭工业区615栋419  
 邮箱: hongqi@thingstet.com  
 网址: www.thingstet.com