



# Animal PET Rat Phantom

Art.-Nr. 800.04.15

## Field of application

Performance measurements according to NEMA-Standard NU 4-2008 page 10 for verification or for comparison of animal PET systems

## Product features

- Phantom body manufactured from polyethylene including precise eccentric bore hole
- Line source with application adapter and ventilation adapter

## Advantages

- ✓ High precision of the eccentric bore hole over a distance of 150 mm inside the phantom body
- ✓ Comfortable and bubble-free filling of the line source

## Product description

The Animal-PET-Cylinder-phantom (Animal rat) includes the phantom body and the line source.

The phantom body is constructed from one piece of polyethylene containing the eccentric bore hole for the line source.

## Specifications phantom body

Type of phantom:	PET cylinder phantom
Material:	Polyethylene 0.96 g/ cm <sup>3</sup>
Measuring length:	150 mm
External diameter:	50 mm
Diameter of the bore hole:	3.2 mm
Length of the bore hole:	150 mm
Eccentricity of the bore hole:	17.5 mm
Total weight of the phantom:	280 g

## Specifications line source

Material of the line source:	PA flexible pipe
Length incl. adapters:	200 mm
Active length:	150 mm
External diameter:	3.0 mm
Inside diameter:	1.7 mm
Disposable syringes (2):	2.0 ml
Needle size:	0.60 x 25 mm
Filling/ ventilation/ emptying:	2 adapters with replaceable pricking-rubber

## Line source

The line source consists of flexible micro tube material with application adapter for filling at one side and ventilation adapter at the opposite side.

The ventilation adapter is applied by axial pressing onto the end of the tube after the tube has been fitted through the bore hole. At both sides the line source is sealed proof by replaceable pricking-rubber joints. Filling, ventilation and emptying is supported by a disposable syringe at each side.



Line source with application adapter and ventilation adapter



Parts of application- and ventilation adapters. The pricking-rubber joints can easily be replaced.

## Accessories

Set of pricking-rubber joints (20 pcs)