



# Animal PET Monkey Phantom

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## Field of application

Performance measurements according to NEMA-Standard NU 4-2008 page 10 for verification or for comparison of count rates of Animal PET Systems.

## Product features

- Phantom body manufactured from single segments of polyethylene that are screwed together by guiding rods, including the eccentric bore hole
- Line source with application adapter and ventilation adapter

## Advantages

- ✓ High precision of the eccentric bore hole over a distance of 400 mm inside the phantom body
- ✓ Comfortable and bubble-free filling of the line source

## Product description

The Animal-PET-Cylinder phantom (Animal monkey) includes the phantom body and the line source. The phantom body is constructed from 5 single cylinders made from polyethylene with 2 guiding bore holes each and the eccentric bore hole for positioning the line source. The single cylinders are pressed together according to size with threaded rods, also made from polyethylene.

## 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.

## Specifications phantom body

Type of phantom:	PET Cylinder phantom
Material:	Polyethylene 0.96 g/ cm <sup>3</sup>
Measuring length:	400 mm
Length with add-on pieces:	420 mm
External diameter:	100 mm
Diameter of the bore hole:	3.2 mm
Length of the bore hole:	400 mm
Eccentricity of the bore hole:	30 mm
Total weight of the phantom:	3000 g

## Specifications line source

Material of the line source :	PA flexible tube
Length incl. adapter:	450 mm
Active length:	400 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 with application adapter and ventilation adapter.



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

## Accessories

Set of pricking-rubber joints (20 pcs)