



Animal PET Mouse Phantom

Art.-Nr. 800.04.14

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 polyethylene with precise eccentric bore hole
- Line source with application adapter and ventilation adapter

Advantages

- ✓ High precision of the eccentric bore hole over a distance of 70 mm inside the phantom body
- ✓ Comfortable and bubble-free filling of the line source

Product description

The Animal-PET-Cylinder-phantom (mouse phantom) 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:	Polyethylen 0.96 g/ cm ³
Measuring length:	70 mm
External diameter:	25 mm
Diameter of the bore hole:	3.2 mm
Length of the bore hole:	70 mm
Eccentricity of the bore hole:	10 mm
Total weight of the phantom:	50 g

Specifications line source

Material of the line source:	PA flexible pipe
Length incl. adapter:	120 mm
Active length:	70 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 adapter. The pricking-rubber joints can easily be replaced

Accessories

Set of pricking-rubber joints (20)