

Micro Hollow Sphere Phantom™



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Micro Hollow Sphere Phantom™ Model ECT/HS/MMP

Main Applications:

- Small animal system evaluation (with field-of-view greater than 45 mm)
- Evaluation of ultra-high resolution ECT systems (less than or equal to 3 mm FWHM)
- Simulates small hot or cold spherical “lesions”
- Quantitative evaluation of spatial resolution/small object size effects
- Evaluation of quantitative ECT reconstruction methods
- Spatial resolution measurements
- Research

Specifications:

Cylinder outside diameter: ~5.1 cm

Cylinder inside diameter: ~4. cm

Cylinder inside height: ~8.2 cm

Cylinder outside height: ~11.4 cm

Volume of empty cylinder: 408 cm³

Lid has 5 places to position micro hollow spheres:

1 position is centered; other 4 are ~1.3 cm off center

Hollow Spheres centers are lined up ~5.3 cm from lid within cylinder

Rods are solid PVC ~0.3 cm diameter Length 3.8 cm

Hollow spheres:

Outer diameter: ~ 5.95 mm, ~ 6.95 mm, ~ 8.23 mm, ~ 9.86 mm

Volume of Spheres: ~ 31 μL, ~ 63 μL, ~ 125 μL, and ~ 250 μL