

MicroMouse™ Phantom

*Provides standard of reference for
Micro-CT scanners*



The CIRS Model 090, Micro-Mouse Phantom, provides a tool for quantifying calcium and bone density with respect to x-ray attenuation and absorption properties. Hydroxyapatite (HA), the principal constituent of teeth and bones within mammals, is the most appropriate reference for mineral density evaluations. CIRS blends HA in a soft-tissue equivalent, polymer background to provide references which can range in HA loading between 0 mg/cc and 750 mg/cc. Hydroxyapatite grain size and homogeneity of the rods are optimized for use in Micro-CT.

The MicroMouse Phantom contains 11 rods of varying mineral loading and dimension. The rods are embedded in soft tissue equivalent material that is of the size and shape of a small rodent.

The Model 090 can be used to evaluate Micro-CT scanners as you would standard whole body scanners. The targets are suitable for determining contrast detectability and estimating low-contrast resolution.



Model 090

Features

- 25 mg/cc - 750 mg/cc targets
- Lung target
- Optimal for Micro-CT

*Tissue Simulation &
Phantom Technology*

CIRS

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Model 090

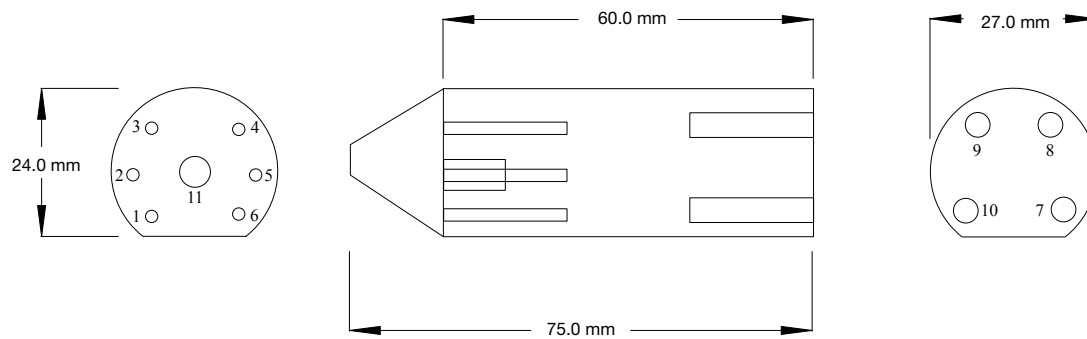
Specifications:

BACKGROUND

Material: Epoxy resin, muscle
Length: 60mm
Diameter: 20mm

RODS

Material: Epoxy resin
Densities: 25 mg/cc, 50, 100, 250, 500, 750 mg/cc, & lung
Diameter: 2, 4, & 5mm
Length: 10 & 20mm



1. 0 mg/cc
2. 50 mg/cc
3. 100 mg/cc
4. 250 mg/cc
5. 500 mg/cc
6. 750 mg/cc
7. 0 mg/cc
8. 50 mg/cc
9. 250 mg/cc
10. 750 mg/cc
11. Lung (Low Density, Inhale)

Body: Muscle

Rods 1-6, 2mm Ø, 20mm length

Rods 7-10, 4mm Ø, 20mm length

Rod 11, 5mm Ø, 10mm length