

MicroMouse™ Phantom and MicroCT Kit

Models 090 & 092 Kit



PROVIDES STANDARD OF REFERENCE FOR MICRO-CT SCANNERS

Micro-CT systems deliver precise, accurate and high-resolution measurements. The field of view of these systems requires appropriately scaled QA phantoms. The CIRS Model 090, MicroMouse™, provides tools 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. It 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. In the MicroMouse Phantom, the rods are embedded in muscle equivalent epoxy material that is of the size and shape of a small rodent.

The Micro-CT rods are available to purchase separately as the Model 092 kit.

Features

- 25 mg/cc - 750 mg/cc HA targets. \varnothing 2mm- \varnothing 16mm
- Lung and Muscle
- Optimal for Micro-CT

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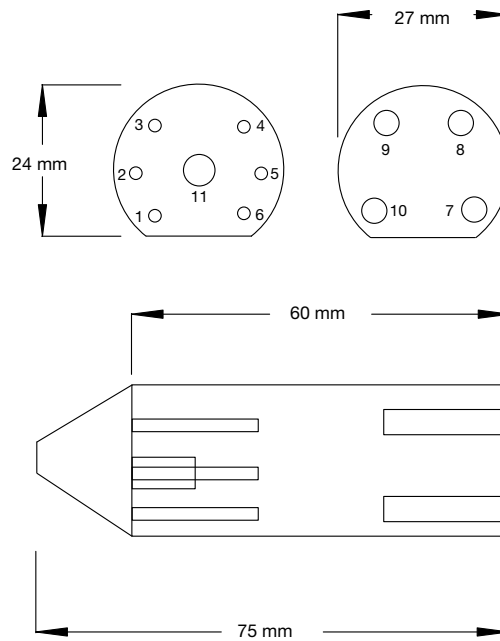
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Tissue Simulation & Phantom Technology

OVERALL DIMENSIONS:	20 mm Ø x 60 mm
ROD DIMENSIONS:	
RODS 1- 6	2 mm Ø x 20 mm
RODS 7-10	4 mm Ø x 20 mm
ROD 11	5 mm Ø x 10 mm
MATERIAL:	Tissue-Equivalent Epoxy

COMPONENT:	COMPOSITION:
Body	Muscle
Rod 1	0 mg/cc
Rod 2	50 mg/cc
Rod 3	100 mg/cc
Rod 4	250 mg/cc
Rod 5	500 mg/cc
Rod 6	750 mg/cc
Rod 7	0 mg/cc
Rod 8	50 mg/cc
Rod 9	250 mg/cc
Rod 10	750 mg/cc
Rod 11	Lung (Low density, inhale)



092 KIT CONFIGURATION

All rods are 20 mm in length (Kit contains one of each rod as specified in table below).

DIAMETER	0 MG/CC	25 MG/CC	100 MG/CC	250 MG/CC	750 MG/CC
2MM	20 mm L	20 mm L	20 mm L	20 mm L	20 mm L
5MM	20 mm L	20 mm L	20 mm L	20 mm L	20 mm L
16MM	20 mm L	20 mm L	20 mm L	20 mm L	20 mm L

