

### **Micro-CT Mouse Phantom**

### The QRM-MicroCT-Mouse-Phantom mimics the body of a small mouse and was specially designed to perform image quality test at small animal micro-CT systems.

The mouse phantom was designed for micro-CT purposes.

The phantom body consists of water equivalent plastic in the energy range of 80 - 140 kVp.

The two high contrast inserts are made up of different concentrations of iodine (2 and 6 g).

The two small bones consists of hydroxiapatite 100 mg/ccm and the three large bones of hydroxiapatite 200 mg/ccm.

#### Specifications

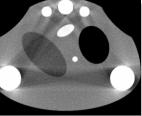
General dimensions

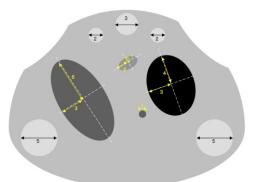
Width	32 mm	
Height		n
Length	40 mr	n
Weight	35 g	
Body sc	oft tissue equivalent	
Inserts		
Bone 2 x 40 mm	; 100 mg HA/ccm	
3 x 40 mm;	; 200 mg HA / ccm	
5 x 40 mm;	; 200 mg HA / ccm	
lodine approx 100	/400 HU / 120 kV	
liver (soft tissue)	3 x 6 x 40 mm	
lung (air)	3 x 4 x 40 mm	

The Mouse Phantom was designed in cooperation with the Institute of Medical Physics (IMP) in Erlangen / Germany for a specific research project. Some of the pictures are by courtesy of the IMP.

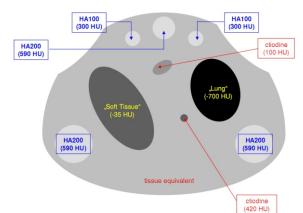


Micro-CT Mouse Phantom (CT-scan at 120 kVp)





# Measures of the mouse phantom inserts (in mm)



# Content of the mouse phantom inserts (values valid for $U_0=120$ kVp)

#### Reference

P. Stenner, T. Berkus, M. Kachelrieß: Empirical dual energy calibration (EDEC) for cone-beam computed tomography. Medical Physics 2007, 34(9), 3630-3641.

www.qrm.de