

Micro-CT SSP

Measuring slice sensitivity profiles, slice thickness or axial modulation transfer function becomes easy with the Micro-CT-SSP-Phantom.

MicroCT-SSP contains a thin insert of material that highly attenuates X-ray (Au). The metal insert is only 10 microns thick and thus adapted to the nominal slice thickness of micro-CT scanners. The high-contrast platelet (diameter 1 mm) is embedded in the center of the cylindrical phantom made of resin.

Standard phantoms are scaled down from the diameter of an average human trunk (32 cm) to that of a fat mouse or lean rat (32 mm). Other dimensions as well as inserts with substances other than specified here can be produced upon request.

Specifications

Base material resin
Diameter of gold insert 1 mm
Thickness of gold insert 10 μ m

Dimensions for mouse-size phantom:

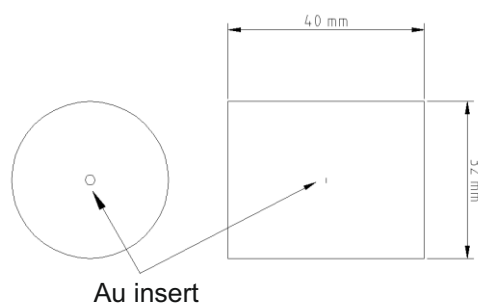
Phantom diameter 32 mm
Phantom length 40 mm
Phantom weight 35 g

References:

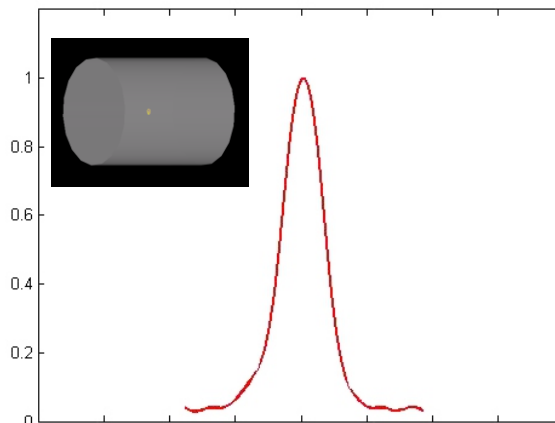
- [1] Kalender, W., Durkee, B., Langner, O., Stepina, E., Karolczak, M.: Comparative Evaluation: Acceptance Testing and Constancy Testing for Micro-CT Scanners. Biomedizinische Technik 50 (2005), 1192-1193



Micro-CT SSP Phantom



Schematic drawing of the phantom



Example of scanner SSP