

Technical Data

RaySafe Pro-Mam Biopsy Phantom

This phantom is designed to provide a fast and easy way to test image quality on digital biopsy mammography units without having to do multiple exposures. It is designed to meet the requirements for use in the ACR stereotactic breast biopsy accreditation program, but does not hold an accreditation.

Key features

- The fast and easy way to test image quality on digital biopsy mammography units
- The phantom contains test objects that are similar to those specified by ACR
- The extended top edge of the phantom allows for easy positioning on recumbent biopsy units
- Can be used in upright and prone machines
- The phantom's small size allows it to be imaged in its entirety in a single exposure when used with a digital biopsy unit – one exposure is all you need

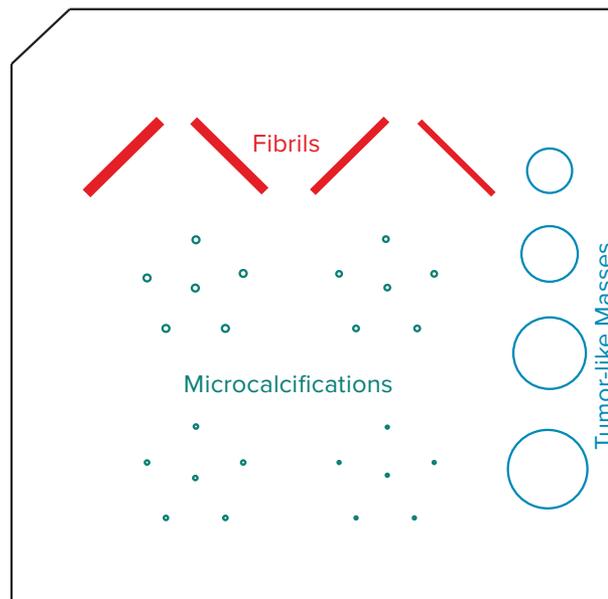


Detect imaging changes

The small-sized RaySafe Pro Mam Biopsy phantom permits fast and easy evaluation of conventional and digital image quality. Image quality can be evaluated with a single exposure.

Test objects are similar to those specified in the 1999 ACR Stereotactic Breast Biopsy Quality Control Manual.

Regular quality control performed with the RaySafe Pro Mam Biopsy phantom allows you to detect changes in imaging quality, enabling you to maintain the system according to manufacturer specifications.



Specifications

Phantom body	
Material	Acrylic (PMMA)
Dimensions and weight	
Overall dimension (h x w x d)	46 x 80 x 70 mm (1.8x 3.1 x 2.8 in.)
Cut-out dimension (h x w x d)	6.25 mm x 60 x 60 (0.25 x 2.4 x 2.4 in.)
Simulates	42 mm (1.7 in.) compressed breast of average glandular/adipose composition
Weight	316 g (0.70 lb)
Wax insert test elements	
Nylon fiber diameters (4)	0.93, 0.74, 0.54, 0.32 mm (0.037, 0.029, 0.021, 0.013 in.)
Aluminum oxide microcalcifications specks (4)	0.54, 0.32, 0.24, 0.20 mm (0.021, 0.013, 0.0094, 0.0079 in.)
Tumor like masses (thickness) (4)	0.25, 0.50, 0.75, 1.00 mm (0.0098, 0.020, 0.030, 0.039 in.)
Standards	
Compliance	Designed to meet requirements, but does not hold an accreditation for: <ul style="list-style-type: none"> • 1999 ACR Stereotactic Breast Biopsy Quality Control Manual

Note: The phantom is made of a 6.25 mm (0.25 in.) wax block insert containing 12 sets of test objects, a 36.75 mm (1.45 in.) thick acrylic base, and a 3 mm (0.12 in.) thick cover.

The phantom approximates a compressed breast of average glandular/adipose composition.

Included in the wax insert are four aluminum-oxide (Al₂O₃) specks that simulate microcalcifications, four different nylon fibers simulate fibrous structures, and four different size lens-shaped masses simulate tumors.

Each phantom includes a 4 mm (0.16 in.) thick, Ø 10 mm (0.39 in.), 6 g (0.2 oz) acrylic contrast test disk, and a magnifying glass.

Ordering information

Model 18-250-01 RaySafe Pro-Mam Biopsy Phantom.

Includes a rotating support plate, and a comfortable carrying case.

RaySafe

We empower our everyday heroes to focus only on protecting lives.

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