

Materials List for:

Construction of a Preclinical Multimodality Phantom Using Tissue-mimicking Materials for Quality Assurance in Tumor Size Measurement

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Materials

Name	Company	Catalog Number	Comments
Reagent/Material			
PVC pipe	N/A	N/A	Home Depot
Bolt, nut, washer and metal plates	N/A	N/A	Home Depot
Acrylic plates and rods	N/A	N/A	Plastic supply in San Antonio, TX
Steel balls	Nordex, Inc.	AEC-M2-2, -4, -7, -10 and -14	2, 4, 7, 10 and 14 mm diameter
C-clamps	Adjustable Clamp	1420-C	2 inch length
Masking tape	3M Industrial Adhesives and Tapes	2600	
Duct tape	3M Industrial Adhesives and Tapes	S-3763SIL	
J-B KWIK	J-B WELD Co.	380238	
3M Scotch-Weld Epoxy Adhesive	3M Industrial Adhesives and Tapes	DP-100	
Silicone grease	Permatex, Inc.	22058	
Silicone glue	DAP, Inc.	688	
Silicone rubber compound	Smooth-ON, Inc.	Smooth-SilTM950 Part A and B	A:B mix ratio = 10:1 by weight
Brush	N/A	N/A	Hobby Lobby
Syringe	Becton Dickinson	309604	10 ml
Needle	Becton Dickinson	305156	22-gauge 1.5 inch length
Funnel	N/A	N/A	
Mesh filters	Small parts, Inc.	CMN-0010-C and CMN-0020-C	10 and 20 µm
Whole milk	N/A	N/A	HEB in San Antonio, TX
Thimerosal	Sigma-Aldrich Co.	T5125	
Propanol	Sigma-Aldrich Co.	33538	
EDTA	Sigma-Aldrich Co.	431788	
CuCl ₂	Sigma-Aldrich Co.	459097	
Agarose	Sigma-Aldrich Co.	A0169	
BaSO ₄	Sigma-Aldrich Co.	B8675	
Glass beads	Potters Industries, Inc.	3000E	
PET/AL/LLDPE*	Pechiney Plastic Packaging, Inc.	Pechiney Spec 151	Phantom cover material
			*Polyethylene terephthalate/ aluminum/linear low density polyethylene
Equipment			
Rotisserie motor	Brinkmann	812-7103-S	Home Depot
Water bath 1	Precision, Inc.	Model: 282, Serial #: 601091552	
Water bath 2	VWR, Inc.	Model: 1212, Serial #: 08119606	

Ultrasound	Visualsonics	Serial #: 770/120-259	
CT	Gamma Medica-Ideas	Serial #: GR 0050	
MRI	Bruker	Part #: W3301390, Serial #: 0030	