



MULTISAMPLE 120E



- Quantitative T1 and T2 relaxometry
- Diffusion
- Metabolic imaging
- Spectroscopy
- Multi-nuclear imaging
- Fat fraction

The MultiSample120E (Enhanced) is a 120mm diameter cylindrical phantom, capable of holding up to 24 industry standard 100 x 16mm, 10ml polypropylene vials. The phantom can be supplied pre-filled with configurations for diffusion or relaxometry, or empty for filling by the user, making it ideal either for acquisitions/technique development, or quality assurance of advanced imaging methods.

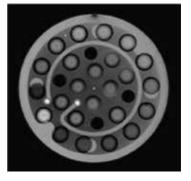
- Standardised multi-vial phantom, using industry standard 10ml sample vials.
- Available pre-filled with configurations for diffusion and relaxometry, or empty for your own unique applications.
- Use for Quality Assurance testing and validation of advanced MRI techniques

More Demo Data at GSP Viewer

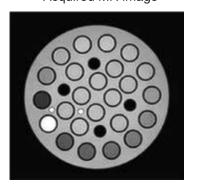


The sample holder features an MR-visible fiducial marker that provides only a single order of rotational symmetry, making it easy to unambiguously identify every sample vial in every MR image.

Fiducial
Acquired MR image



Samples
Acquired MR image



Front View
Clockwise Rotation



Rear View
Counter-clockwise Rotation

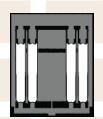


Temperature Monitoring

Monitor the phantom's temperature using the included liquid crystal thermometer. Two ports are included for inserting fibre optic probes. Contact us to see how your favourite temperature probes can be fitted to the phantom.

Three concentric rings of sample locations (14 outer, 6 middle, 4 central) provide ample possibilities for investigating the spatial impact of B1 and B0 inhomogeneities and gradient non-linearities.





Specification Table

	Specifical (asset face
Diameter	120mm (internal volume) 130mm (outer cylinder) 160mm (widest point)
Length	163mm
Overall dimensions	(L)160mm x (W)160 mm x (H)165mm
Ports	2x 1/4" BSP (filling ports) 2x M12x1.5 (probe ports)
Materials	Body and Lid: Polycarbonate Sample holder: Polycarbonate and Acrylic Fillable Tube Fiducials: Glass and EVA Plastic Fasteners: GF Nylon and Polycarbonate Plug: GF Nylon Seals: Nitrile
Sample containers	24x 10ml, 100x16 mm polypropylene vials
Phantom Contents	Can be: - Supplied empty Filled with standard diffusion and relaxome- try configurations Filled to customer specification on request.
Packaging	Foam padded box for storage and transport
Optional extras	Insertable fibre optic thermometer probes Torque screwdriver (highly recommended for self-filling applications to prevent damage from overtightening screws.)

The standardised design, combined with voxel models generated directly from CAD, provides a structural reference to register acquired images to and extract regions of interest for further analysis.

Pre-filled vials Available!

in standard configurations for Diffusion and Relaxometry

with NISTcertification

Other materials

Available

on request.

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