



GOLD
STANDARD
PHANTOMS

MULTISAMPLE 120D

One phantom
endless possibilities

- Quantitative T_1 and T_2 relaxometry
- Diffusion
- Metabolic imaging
- Spectroscopy
- Multi-nuclear imaging
- Fat fraction

The Dynamic MultiSample120 is a 120 mm diameter cylindrical phantom, capable of holding up to eight industry standard Falcon BD 15 mL or 50 mL OakRidge polypropylene vials allowing for flexibility. 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.

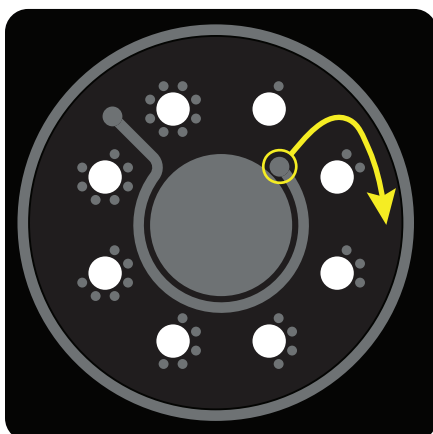
- Dynamic Multi-vial phantom, using industry-standard Falcon BD 15 ml or OakRidge 50 ml sample vials.
- Available pre-filled with configurations for diffusion and relaxometry, or empty for your own unique applications.
- Use for Quality Assurance testing and validation of advanced MRI techniques

More
Demo Data
at GSP
Viewer



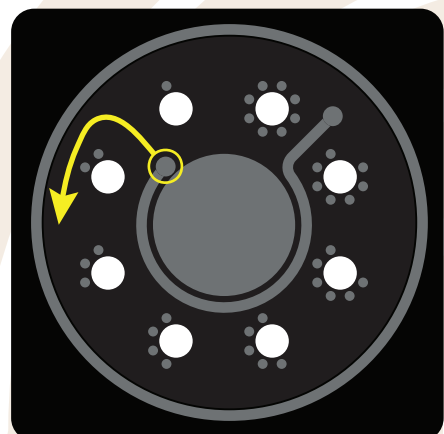
The sample holder features an MR-visible fiducial marker that provides only a single order of rotational symmetry, in addition MR-visible vial numbering making it easy to unambiguously identify every sample vial in every MR image.

Front View
Clockwise Rotation



Rear View

Anti-Clockwise Rotation



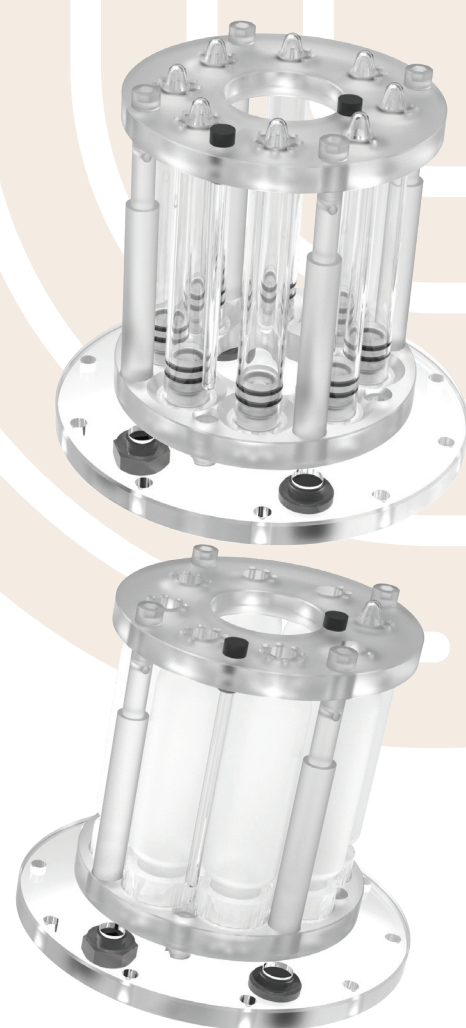
Temperature Monitoring

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 temperature probes can be fitted to the phantom.

The phantom includes two NMR thermometers that measure temperature from the chemical-shift difference between the CH₂ and OH groups in ethylene glycol, a method used in variable-temperature NMR for over 50 years.

Specification Table

Diameter	120 mm (internal volume) 130 mm (outer cylinder) 160 mm (widest point)
Length	163 mm
Overall dimensions	(L)160 mm x (W)160 mm x (H)165 mm
Ports	2 x 1/4" BSP (filling ports) 2 x M12 x 1.5 (probe ports)
Materials	Body and Lid: Polycarbonate Sample holder: Polycarbonate NMR Tubes: Glass and EVA Plastic Fasteners: GF Nylon and Polycarbonate Plug: GF Nylon Seals: Nitrile
Sample containers	8 x 15 ml Falcon BD Polypropylene vials OR 8 x 50 ml OakRidge Polypropylene Vials
Phantom Contents	Can be: - Supplied empty. - Filled with standard diffusion and relaxometry configurations. - Filled to customer specification on request.
Includes	Foam padded box for storage and transport Torque screwdriver and Bits Liquid crystal thermometer Stand
Optional extras	Coil-specific phantom holder Insertable fibre optic thermometer probes



Pre-filled vials

Available!

in standard configurations
for Diffusion and Relaxometry

With NIST
Certification

Other materials

Available!

on request.



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