



Model 108 Essential Prostate Phantom Spec Sheet

- Developed in collaboration with NIST and University of Minnesota.
- \varnothing 190 mm x 280 mm long (axial) cylindrical shell, filled with 0.4% saline solution.
- Rotatable prostate mimic assembly comprised of:
 - T1 mimics*: 7x vials with NIST-traceable NiCl_2 solutions from \sim 120 ms to \sim 1900 ms.
 - T2 mimics*: 7x vials with NIST-traceable MnCl_2 solutions from \sim 30 ms to \sim 270 ms.
 - ADC mimics*: 7x vials with NIST-measured PVP solutions with ADC values from \sim 0.3x10⁻³ mm²/sec to \sim 2x10⁻³ mm²/sec.
 - Patented ten-element liquid crystal (LC) thermometer, MR-readable, for temperature compensation from 15°C to 24°C.
 - Resolution insert with hole patterns in diameters from 0.4 mm to 1.2 mm.
- Optional tubes for insertion of \varnothing 40 mm and \varnothing 25 mm rf endo-rectal coils (ERC).
- Compatible with qCal-MR® QA/QC software.



CaliberMRI provides MRI phantoms with calibration solutions and tissue mimics that have traceability up to and including full SI traceability through NIST when available.

*Nominal values taken at 3T at 20°C

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