

# Pro-NM Performance HD



08-106 - standard version  
08-107 - version with the PET Lid



**The phantom for high resolution NM and PET systems performance evaluation** (collimator, artifacts, calibration, reconstruction parameters).

Among other things, it can be used to evaluate: center-of-rotation error, non-uniformity artifacts, changes of radius-of-rotation on spatial resolution, reconstruction filters on spatial resolution, attenuation and scatter compensation.

## Technical data (can be modified to customer specifications):

- main cylinder:
  - inside cylinder diameter: 206 mm
  - inside cylinder height: 186 mm
  - cylinder wall thickness: 7 mm
- cold rods insert:
  - rod diameters: 3.2, 4.8, 6.4, 7.9, 9.5 and 11.1 mm
  - height of rods: 88 mm
- cold spheres:
  - solid sphere diameters: 9.5, 12.7, 15.9, 19.1, 25.4 and 31.8 mm
  - height of the center of the spheres from the base plate: 127 mm
- optional PET Lid with cylindrical samples:
  - refillable thin-walled cylinders, diameters: 8, 12, 16 and 25 mm
  - water filled cylinder diameter: 25 mm
  - air filled cylinder diameter: 25 mm
  - PTFE solid cylinder diameter: 25 mm
  - cylinder height: 38 mm
- optional heavy duty carrying case

## Product features:

- Complies with:
  - NEMA Standards Publication (NU 1-2001) Performance Measurements of Scintillation Cameras
  - AAPM Report No. 9 - Computer Aided Scintillation Camera Acceptance Testing
  - AAPM Report No. 22 - Rotating Scintillation Camera SPECT Acceptance Testing and Quality Control
  - ACR-SNM (Res. 5 - 2011) technical standard for diagnostic procedures using radiopharmaceuticals
- the Manual provides detailed guidelines for carrying out each test, results assessment and registration