

MRI Compatibility



Establish Device Safety with a Trusted Partner

BDC Laboratories is proud to announce our newest offering:

MRI Compatibility Testing of Passive Medical Devices.

MR scans of patients with implants can be hazardous to the patient. To aid in demonstrating safety, BDC's methods adhere to published ASTM standards and additional regulatory guidance for safety and compatibility of implants and other devices in the MR environment.

Numerical Modeling & Physical Testing

BDC Laboratories can provide a comprehensive solution or an individual aspect to meet your specific MR safety needs. Numerical simulation and modeling provide direction and insight to a test article's response within an MR field. Physical testing provides confirmation and the physical measured response of a test article within an MR field.



Methods & Guidance

Passive implants and devices are evaluated for MR compatibility at BDC Labs within the framework of the following standards:

ASTM F2052: *Standard Test Method for Measurement of Magnetically Induced Displacement Force on Medical Devices in the Magnetic Resonance Environment*

ASTM F2119: *Standard Test Method for Evaluation of MR Image Artifacts from Passive Implants*

ASTM F2182: *Standard Test Method for Measurement of Radio Frequency Induced Heating On or Near Passive Implants During Magnetic Resonance Imaging*

ASTM F2213: *Standard Test Method for Measurement of Magnetically Induced Torque on Medical Devices in the Magnetic Resonance Environment*

ASTM F2503: *Standard Practice for Marking Medical Devices and Other Items for Safety in the Magnetic Resonance Environment*

US FDA Guidance Document: *Establishing Safety and Compatibility of Passive Implants in the Magnetic Resonance (MR) Environment*

US FDA Guidance Document: *Assessment of Radiofrequency – Induced Heating in the Magnetic Resonance (MR) Environment for Multi-Configuration Passive Medical Devices*

Confirm Performance

- Heart valves
- Annuloplasty rings
- Stents / Stent Grafts
- Aneurysm clips
- Vena Cava filters
- Orthopedic implants
- Spinal implants
- Dental implants
- Cranial implants
- Other Passive Implants & Devices...



Medical Device Testing & Equipment •
Simulation Platforms • Silicone Vessels

4060 Youngfield St
Wheat Ridge, CO 80033
USA
Phone: 303.456.4665
www.bdclabs.com
E-mail: info@bdclabs.com

Transonic is a registered trademark of Transonic.
Statys is a registered trademark of BDC Labs.

© October 2017, BDC Labs. All rights reserved.