Reliable medical implants and instruments are built from dependable, high-performing materials. Accredited Testing Services let you know important information to verify the quality of your material, including chemical composition, grade and corrosion resistance, and to determine if the material is free of defects.

Laboratory Testing Inc. (LTI) has full-service mechanical testing, metallography, chemistry and nondestructive testing labs. We've been in business since 1984 providing cost-effective solutions for clients in raw material production, R&D, manufacturing, fabrication and more.

LTI is A2LA and NADCAP accredited, ISO/IEC 17025 certified, ISO 13485 compliant and approved by many material suppliers and manufacturers. Customers count on us for Fast Service, Reliable Test Results and Technical Expertise.

YOUR FULL-SERVICE TEST LAB

Approved by Our Medical Customers

LTI has a long list of Medical Suppliers and Original Equipment Manufacturers that we support with a range of testing services, including:

- Boston Centerless
- Carpenter
- DePuy-Synthes
- Globus Medical
- Johnson Matthey
- JPMC
- Microcision
- Peregrine Surgical
- Pulse Technologies
- RTI Surgical Inc.
- Spectra Medical
- T.I. Medical
- Tech Tube
- Tecomet
- TW Metals
- Wilsey Medical
- Zimmer-Biomet

Testing Materials Used in Implants & Instruments

You’ll find that LTI is experienced with testing all the common metal alloys used by the medical industry, including:

- Titanium 6AL-4V
- Titanium 6AL-4V ELI
- Titanium CP
- Cobalt-Chrome Moly
- 316L Stainless
- 304L Stainless
- 35N LT
- 17-4 PH
- Beta-Tricalcium Phosphate
- Hydroxyapatite

Continue reading for more information about the testing capabilities available from LTI.
These Services and More at One Location

Chemical Analysis
- Chemistry & Composition Verification
- Contaminant & Impurity Analysis
- ICP Analysis (ICP-AES and ICP-MS)
- RoHS Testing
- SEM / EDS Analysis

Metallurgical Evaluation
- Alpha Case
- Case Depth
- Coating Evaluation
- Grain Size
- Inclusion Rating
- Intergranular Attack & Oxidation
- Microhardness (Vickers and Knoop)
- Plating Thickness
- Weld Evaluation

Mechanical Testing
- Compression
- Creep
- Fracture Toughness
- Fatigue Crack Growth
- Hardness
- Stress Rupture
- Tensile

Corrosion Testing
Passivation Testing

Nondestructive Testing
- Ultrasonic (Immersion and Contact)
- Magnetic Particle
- Liquid Penetrant
- X-ray

Ask how LTI can help with your specific testing requirements.

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