SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

LAMBDA RESEARCH INC.
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MECHANICAL

Valid To: November 30, 2028 Certificate Number: 0138.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metallic, polymeric, and ceramic samples:

Tests	**Test Methods**
X-Ray Diffraction (XRD):	
Residual Stress Measurement	SAE HS-784[1]; GE 4013195-991[1]; ASTM E915[1], ASTM E2860; BS EN 15305
Elastic Constant	ASTM E1426
Retained Austenite	ASTM E975; SAE SP-453
Hydroxylapatite Content	ASTM F2024
Texture Analysis, Including Pole Figure Determination, Orientation Distribution Function (ODF) and Inverse Pole Figure Analysis	ASTM E81
Qualitative Phase Analysis	3P1015[2]
Quantitative Phase Analysis	3P1043[2]
X-Ray Fluorescence (XRF):	
Energy Dispersive X-ray Spectroscopy (EDS)	3P1124[2]
Residual Stress:	
Ring Core Method	3P1051[1, 2], 3P1129[1, 2]
Hole Drilling Method	ASTM E837[1]
Slotting Method	3P1137[1, 2]
Strain Gage Monitored Stress Relaxation	3P1002[1, 2]

Tests	**Test Methods**
Preparation Techniques:	
Installation of Bonded Resistance Strain Gages (Strain Gage Application)	ASTM E1237[1]
Electropolishing for Subsurface Analysis	3P1003[1, 2]
Hardness Testing:	
Rockwell Hardness (HRB & HRC)	ASTM E18
Microhardness (Vickers & Knoop)	ASTM E384/E92

[1] This laboratory performs field testing activities for these tests.
[2] Lambda Research, Inc. in-house method.

The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specification listed below. The inclusion of the material specification on this Scope does not confer laboratory accreditation to the material specification nor does it confer accreditation for the method(s) embedded within the specification.

Standard Specification for Composition of Hydroxylapatite for Surgical Implants	ASTM F1185, paragraph 4.2

Accredited Laboratory

A2LA has accredited

LAMBDA RESEARCH INC.

Cincinnati, OH

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 6th day of November 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0138.01
Valid to November 30, 2028

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.