TITANIUM METALS CORPORATION

Material Test Certificate

Certificate Information	
Certificate Number:	TMC-2025-0156
Date:	January 14, 2025
Customer:	BioMed Components LLC
Customer PO:	BM-2025-0089

MATERIAL IDENTIFICATION

Property	Value
Material Grade	Titanium Grade 2 (ASTM B348)
Product Form	Round Bar
Dimensions	15.88mm Diameter x 3000mm Length
Heat Number	TM-240812-G2-47
Mill Lot	47892-B
Quantity	25 bars
Total Weight	142.7 kg

CHEMICAL COMPOSITION (Weight %)

Element	Actual %	Max Allowed	Result
Nitrogen (N)	0.015%	0.03%	<
Carbon (C)	0.04%	0.10%	✓
Hydrogen (H)	0.008%	0.015%	✓
Iron (Fe)	0.18%	0.30%	✓
Oxygen (O)	0.12%	0.25%	✓
Titanium (Ti)	Balance	Balance	✓

MECHANICAL PROPERTIES

Property	Actual	Minimum	Result
Tensile Strength	415 MPa	345 MPa	✓
Yield Strength (0.2%)	285 MPa	275 MPa	✓
Elongation	28%	20%	✓
Reduction of Area	42%	30%	✓
Hardness (HB)	201	Max 265	✓

TEST CONDITIONS

• Test Temperature: 23°C ±2°C

• Test Method: ASTM E8/E8M

• Specimen Location: Center of bar, longitudinal direction

• Number of Tests: 3 (average values reported)

CERTIFICATIONS

✓ Material produced under ISO 9001:2015 quality system

✓ Material suitable for medical device applications

☑ Complies with ASTM F67 requirements for surgical implants

✓ FDA DMF reference: 12847 (for medical applications)

TRACEABILITY

Item	Details
Raw Material Source	Ore: Australia, Rutile concentrate
Smelting Location	Henderson, NV facility
Processing Date	August 12-15, 2024
Quality Manager	Sarah Kim
Metallurgist	Dr. James Martinez

Note: This certificate covers only the material described above and applies only to the quantities and specifications stated herein.

Certified by:

John Patterson, Quality Assurance Manager

Titanium Metals Corporation

Date: January 14, 2025

☐ TMC Certification Seal [SEAL]