



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

IBA Dosimetry America Inc. dba Radcal
426 West Duarte Road
Monrovia, CA 91016

Fulfills the requirements of

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 01 July 2027

Certificate Number: AC-1553



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AND

ANSI/NCSL Z540-1-1994 (R2002)

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CALIBRATION

ISO/IEC 17025 Accreditation Granted: **01 July 2025**

Certificate Number: **AC-1553** Certificate Expiry Date: **01 July 2027**

Ionizing Radiation

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dose, Diagnostic (40 to 150) kV (1.4 to 14) mm Al HVL	(1 to 100) mGy	3.3 % of reading	Comparison to (Anode/Filter W/Al, W/Cu) Internal Method
Dose, Mammographic (20 to 50) kV (0.15 to 1.4) mm Al HVL	(1 to 100) mGy	3.3 % of reading	Comparison to (Anode/Filter W/Al, W/Ag, W/Rh, Mo/Mo, Mo/Rh, Rh/Rh) Internal Method
Non-Invasive kVp, Diagnostic	(40 to 150) kVp	0.25% of reading	Comparison to Dynalyzer Internal Method (Anode/Filter W/Al, W/Cu)
Non-Invasive kVp, Mammographic	(20 to 40) kVp	0.35% of reading	Comparison to Dynalyzer Internal Method (Anode/Filter W/Al, W/Ag, W/Rh, Mo/Mo, Mo/Rh, Rh/Rh)

Ionizing Radiation

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Invasive kVp	(10 to 75) kV	0.16 kV	Comparison to Dynalyzer Internal Method
Anode Current Fluoro mode Rad mode	(10 to 20) mA (50 to 250) mA	0.14 mA 0.43 mA	Comparison to HP 34401A Multimeter Internal Method
Filament Current	2.5 A +/- 5 % (0.1 to 1) A	0.013 A 2 % of reading	Comparison to Shunt Internal Method
Dynalyzer Display	\pm (40 to 150) kV (25 to 1 000) mA	0.1 % of reading 0.083 % of reading	Comparison to HP 34401A Multimeter Internal Method
mAs	(0.001 to 9 999) mAs	0.15 % of reading	Comparison to 90M9 mAs sensor, HP 5315A Counter Internal Method
Gamma	(5 to 20) μ Gy/min (0.02 to 3) mGy/min 30 mGy/min	3.3 % of reading	Comparison to Reference Chambers, ^{137}Cs , ^{60}Co , Internal Method

Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Luminance ²	100 cd/m ²	3 % of reading	Comparison to Luminance detector
Illuminance ²	110 lux	3 % of reading	Comparison to Illuminance detector

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. The nominal values listed are approximate.



Jason Stine, Vice President

