CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Southeastern Biomedical Associates, Inc.

4360 Hickory Blvd.
Granite Falls, NC 28630

Fulfills the requirements of

ISO/IEC 17025:2017

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: 11 April 2028

Certificate Number: AC-2577

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

Southeastern Biomedical Associates, Inc.

4360 Hickory Blvd.
Grantie Falls, NC 28630

Boyd Campbell 828-396-6010

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **08 April 2026**

Certificate Number: **AC-2577** Certificate Expiry Date: **11 April 2028**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Capacitance – Source[1]			Comparison to Fluke 5502A Multiproduct Calibrator
(10 Hz to 10 kHz)	(0.04 to 1.1) nF	0.018 nF	
(10 Hz to 3 kHz)	(1.1 to 3.3) nF	0.026 nF	
(10 Hz to 1 kHz)	(3.3 to 11) nF	0.03 nF	
(10 Hz to 1 kHz)	(11 to 33) nF	0.20 nF	
(10 Hz to 1 kHz)	(33 to 110) nF	0.34 nF	
(10 Hz to 1 kHz)	(110 to 330) nF	1.1 nF	
(10 to 600) Hz	(0.33 to 1.1) µF	3.3 nF	
(10 to 300) Hz	(1.1 to 3.3) µF	0.011 µF	
(10 to 150) Hz	(3.3 to 11) µF	0.033 µF	
(10 to 120) Hz	(11 to 33) µF	0.14 µF	
(10 to 80) Hz	(33 to 110) µF	0.5 µF	
(0 to 50) Hz	(110 to 330) µF	1.4 µF	
(0 to 20) Hz	(0.33 to 1.1) mF	4.8 µF	
(0 to 6) Hz	(1.1 to 3.3) mF	0.014 mF	
(0 to 2) Hz	(3.3 to 11) mF	0.029 mF	
DC Current – Source [1]	(0 to 330) µA	0.14 µA	Comparison to Fluke 5502A Multiproduct Calibrator
	(0.33 to 3.3) mA	0.7 µA	
	(3.3 to 33) mA	0.007 mA	
	(33 to 330) mA	0.06 mA	
	(0.33 to 1.1) A	0.2 mA	
	(1.1 to 3.3) A	0.6 mA	
	(3.3 to 11) A	0.007 A	

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Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
AC Current – Source [1]	(29 to 330) µA		Comparison to Fluke 5502A Multiproduct Calibrator
	(10 to 20) Hz	0.3 µA	
	(20 to 45) Hz	0.29 µA	
	45 Hz to 1kHz	0.29 µA	
	(1 to 5) kHz	0.36 µA	
	(5 to 10) kHz	0.55 µA	
	(10 to 30) kHz	1 µA	
AC Current – Source [1]	(0.33 to 3.3) mA		Comparison to Fluke 5502A Multiproduct Calibrator
	(10 to 20) Hz	0.002 7 mA	
	(20 to 45) Hz	0.002 6 mA	
	45 Hz to 1 kHz	0.002 4 mA	
	(1 to 5) kHz	0.002 6 mA	
	(5 to 10) kHz	0.003 3 mA	
	(10 to 30) kHz	0.005 mA	
	(3.3 to 33) mA		
	(10 to 20) Hz	0.024 mA	
	(20 to 45) Hz	0.024 mA	
	45 Hz to 1 kHz	0.026 mA	
	(1 to 5) kHz	0.026 mA	
	(5 to 10) kHz	0.029 mA	
	(10 to 30) kHz	0.03 mA	
	(33 to 330) mA		
	(10 to 20) Hz	0.16 mA	
	(20 to 45) Hz	0.09 mA	
	45 Hz to 1 kHz	0.11 mA	
	(1 to 5) kHz	0.11 mA	
	(5 to 10) kHz	0.2 mA	
	(10 to 30) kHz	0.39 mA	
	(0.33 to 1.1) A		
	(10 to 45) Hz	0.001 A	
	45 Hz to 1 kHz	0.000 8 A	
	(1 to 5) kHz	0.003 5 A	
	(5 to 10) kHz	0.015 A	
	(1.1 to 3) A		
	(10 to 45) Hz	0.002 7 A	
	45 Hz to 1 kHz	0.001 4 A	
	(1 to 5) kHz	0.008 A	
	(5 to 10) kHz	0.038 A	

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AC Current – Source [1]	(3 to 11) A (45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz (11 to 20.5) A (45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	 0.007 A 0.009 A 0.11 A 0.022 A 0.026 A 0.39 A	Comparison to Fluke 5502A Multiproduct Calibrator
DC Voltage – Source [1]	(0 to 330) mV (0.33 to 3.3) V (3.3 to 33) V (30 to 330) V (100 to 1 020) V	0.06 mV 0.000 1 V 0.001 V 0.01 V 0.06 V	Comparison to Fluke 5502A Multiproduct Calibrator
DC Voltage – Measure [1]	(0 to 20) mV (20 to 200) mV (0.2 to 2) V (2 to 20) V (20 to 200) V (200 to 1 000) V	0.006 mV 0.011 mV 0.056 mV 0.6 mV 0.007 3 V 0.25 V	Comparison to Rigol DM3068 Multimeter
AC Voltage – Source [1]	(1 to 33) mV (10 to 45) Hz 45Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz (33 to 330) mV (10 to 45) Hz 45Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz (0.33 to 3.3) V (10 to 45) Hz 45Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	 0.1 mV 0.08 mV 0.09 mV 0.11 mV 0.17 mV 0.42 mV 0.23 mV 0.15 mV 0.31 mV 0.43 mV 0.99 mV 2.1 mV 0.001 9 V 0.001 3 V 0.002 6 V 0.003 6 V 0.008 2 V 0.018 V	Comparison to Fluke 5502A Multiproduct Calibrator

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AC Voltage – Source [1]	(3.3 to 33) V		Comparison to Fluke 5502A Multiproduct Calibrator
	(10 to 45) Hz	0.021 V	
	45Hz to 10 kHz	0.013 V	
	(10 to 20) kHz	0.026 V	
	(20 to 50) kHz	0.036 V	
	(50 to 100) kHz	0.082 V	
	(33 to 330) V		
	45Hz to 1kHz	0.19 V	
	(1 to 10) kHz	0.29 V	
	(10 to 20) kHz	0.34 V	
	(20 to 50) kHz	0.43 V	
	(50 to 100) kHz	0.93 V	
	(330 to 1 020) V		
	45 Hz to 1 kHz	0.83 V	
	(1 to 5) kHz	1.1 V	
	(5 to10) kHz	1.2 V	
Electrical Simulation of Thermocouple Indicating Systems – Source [1]	Type K (-100 to 1 000) °C	0.32 °C	Comparison to Fluke 5502A Multiproduct Calibrator
Resistance – Source [1]	(0 to 11) Ω	0.058 Ω	Comparison to Fluke 5502A Multiproduct Calibrator
	(11 to 33) Ω	0.06 Ω	
	(33 to 110) Ω	0.06 Ω	
	(110 to 330) Ω	0.12 Ω	
	(.33 to 1.1) kΩ	0.6 Ω	
	(1.1 to 3.3) kΩ	1.1 Ω	
	(3.3 to 11) kΩ	5.9 Ω	
	(11 to 33) kΩ	6.7 Ω	
	(33 to 110) kΩ	0.015 kΩ	
	(110 to 330) kΩ	0.074 kΩ	
	(.33 to 1.1) MΩ	0.6 kΩ	
	(1.1 to 3.3) MΩ	0.9 kΩ	
	(3.3 to 11) MΩ	0.013 MΩ	
	(11 to 33) MΩ	0.038 MΩ	
	(33 to 110) MΩ	0.19 MΩ	
Resistance – Measure [1]	(0.1 to 200) Ω	0.021 Ω	Comparison to Rigol DM 3068 Multimeter
	(0.2 to 2) kΩ	0.14 Ω	
	(2 to 20) kΩ	1.4 Ω	
	(20 to 200) kΩ	0.014 kΩ	
	(0.2 to 1) MΩ	0.15 kΩ	
	(1 to 10) MΩ	4.8 kΩ	

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Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pressure – Measure [1]	(-12 to 300) psi	0.20 psi	Comparison to Fluke 718-300G Pressure Calibrator
Laboratory Balance [1,2]	(0 to 200) g (0 to 380) g	0.47 mg 0.6 mg	Performed in accordance with NIST Handbook 44 test method: ASTM Class 0 weights
	(0 to 2 000) g	0.019 g	Performed in accordance with NIST Handbook 44 test method: ASTM Class 1 weights

Time and Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Frequency – Source [1]	(0.01 to 120) Hz (0.12 to 1.2) kHz (1.2 to 12) kHz (12 to 200) kHz	0.005 Hz 0.005 Hz 0.05 Hz 0.38 Hz	Comparison to Fluke 5502A Multiproduct Calibrator

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 CMC for scales and balances are highly dependent upon the resolution of the unit under test. The uncertainty presented here does not include the resolution of the unit under test. The resolution will be included in the reported measurement uncertainty at the time of calibration.

Jason Stine, Vice President

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