Innovative Microbiology Products 11333 Woodglen Drive • Rockville, Maryland 20852 301.231.7400 • www.biosci-intl.com • fax: 301.231.7277

CERTIFICATE OF CALIBRATION

Model:

SAS Super 180

Air Sampler Serial #:

00-C-1453

Air Sampler Head Serial #: Customer:

Aerobiology Laboratory

Customer Asset ID #:

n/a

4508

Calibration performed at:

Woodglen site

(see address above)

Cal. Date:

12 Jan 2022

Cal. Due:

12 Jan 2023

(12 months)

Procedure:

EOP-030

Certificate #: 00-C-1453-2573

Volume sampled (L):

1000

Calibrated w/media type:

BBL Petri TSA

Plate Lot #:

1302110

Plate Exp Date:

4/14/2022

	As Found	In Tolerance	As Left	In Tolerance	Acceptable Range
Battery output (Volts):	10.2	n/a	10.0	n/a	>8.2
Temperature (F°):	68.8	n/a	68.7	n/a	59 - 95
Barometric pressure (in. HG):	30.21	n/a	30.21	n/a	n/a
Time to sample 1000 Liters (min)	5.61	n/a	5.55	n/a	n/a
Temp. & Pressure Standardization Factor:	1.01	n/a	1.01	n/a	n/a
Air velocity reading (ft/min)	98.0	n/a	99.0	n/a	n/a
Air velocity reading (m/sec)	0.498	n/a	0.503	n/a	n/a
Standardized air velocity reading (m/sec)	0.504	n/a	0.509	n/a	n/a
Standardized Air Flow (L/min)	178.2	Yes	180.1	Yes	171 - 189

Additional heads inspected and determined to be within +/-2%:

Additional service, preventative maintenance, or calibration notes:

Non-Functional due to melted wiring. Replaced wire harness, on/off switch, CMOS battery and battery with like for like parts. As found readings taken, then as left readings taken.

Bioscience International certifies that the above described instrument conforms to the original manufacturer's tolerances for the parameters listed (not applicable to As Found data) & has been calibrated in accordance with ISO 17025:2017 guidelines using standards whose accuracies are traceable to the U.S. National Institute of Standards & Technology, have been verified with respect to instrumentation whose accuracy is traceable to NIST, or are derived from accepted values of physical constants. CMC test uncertainty is +/-2.2%. Instruments are calibrated with a test uncertainty ratio of 4:1 or greater whenever possible, with uncertainty defined as within a 95% confidence interval using a coverage factor of k = 2. In all cases, statistical methods are used to minimize uncertainty using the best commercially available methods. In Tolerance conditions are based on test results falling within the Acceptable Range. Measurement uncertainty is provided separately & independent of the decision rule. Voltage readings are for preventative maintenance purposes & not part of the calibration; values other than voltage, temperature, pressure, & air velocity are calculated values. Calibration results relate only to the items listed above; e.g., the instrument should be recalibrated prior to switching to a different media size (e.g., from 90mm Petri dishes to 55mm contact plates or vice versa).

Measurement Standards

ID

W-T95451906004 W-6530-200391171 Description

Velocity

Temperature & Pressure

Last Cal.

Cal. Due

10/12/2021 7/1/2020 10/12/2022 7/1/2022

Work performed by / date: Banksia Ternand 12 Jan 2022 Reviewed by / date Mely 12JAN 2022

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