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 100

Air Sampler Serial #:

14-D-09351

Air Sampler Head Serial #:

6163

Customer:

Aerobiology Laboratory

Customer Asset ID #:

n/a

Calibration performed at:

JBW site

10242 Little Rock Ln

Frederick, MD 21702

Volume sampled (L): Calibrated w/media type:

Cal. Date:

Cal. Due:

Procedure:

1000 **BBL TSA Petri**

(12 months)

Plate Lot #:

16 Dec 2021

16 Dec 2022

EOP-030

Certificate #: 14-D-09351-2546

1162515

Plate Exp Date:

12/20/2021

	As Found	In Tolerance	As Left	In Tolerance	Acceptable Range
Battery output (Volts):	10.0	n/a	9.7	n/a	>8.2
Temperature (F°):	70.0	n/a	70.0	n/a	59 - 95
Barometric pressure (in. HG):	30.20	n/a	30.20	n/a	n/a
Time to sample 1000 Liters (min)	10.02	n/a	9.84	n/a	n/a
Temp. & Pressure Standardization Factor:	1.01	n/a	1.01	n/a	n/a
Air velocity reading (ft/min)	55.0	n/a	56.0	n/a	n/a
Air velocity reading (m/sec)	0.279	n/a	0.284	n/a	n/a
Standardized air velocity reading (m/sec)	0.282	n/a	0.287	n/a	n/a
Standardized Air Flow (L/min)	99.8	Yes	101.6	Yes	95 - 105

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

Additional service, preventative maintenance, or calibration notes:

n/a n/a

Bioscience International certifies that the above described instrument conforms to the original manufacturer's talerances 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 medio size (e.g., from 90mm Petri dishes to 55mm contact plates or vice versa).

Measurement Standards

ID

J-T95451921005

Description

Last Cal.

Cal. Due

Velocity

9/1/2021

9/1/2022

J-10510922-200515237

Temperature & Pressure

8/31/2020

8/31/2022

Work performed by / date:

/12-16-21 Reviewed by / dake:

Version 2.6

Effective 11/12/2021

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