

BIOSCIENCE INTERNATIONAL

Innovative Microbiology Products
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CERTIFICATE OF CALIBRATION

Model:	SAS Super 100
Air Sampler Serial #:	04-C-02941
Air Sampler Head Serial #:	26711
Customer:	Aerobiology Laboratory
Customer Asset ID #:	n/a
Calibration performed at:	Woodglen site (see address above)

Cal. Date:	7 Nov 2019
Cal. Due:	6 Nov 2020 (12 months)
Procedure:	EOP-030
Certificate #:	04-C-02941-1776
Volume sampled (L):	1000
Calibrated w/media type:	BBL Petri
Plate Lot #:	9189236
Plate Exp Date:	12/17/2019

	As Found	In Tolerance	As Left	In Tolerance	Acceptable Range
Battery output (Volts):	9.8	n/a	9.6	n/a	>8.2
Temperature (F°):	73.0	n/a	73.8	n/a	59 - 95
Barometric pressure (in. HG):	30.2	n/a	30.2	n/a	n/a
Time to sample 1000 Liters (min)	9.56	n/a	9.91	n/a	n/a
Temp. & Pressure Standardization Factor:	1.00	n/a	1.00	n/a	n/a
Air velocity reading (ft/min)	58.0	n/a	56.0	n/a	n/a
Air velocity reading (m/sec)	0.295	n/a	0.284	n/a	n/a
Standardized air velocity reading (m/sec)	0.296	n/a	0.285	n/a	n/a
Standardized Air Flow (L/min)	104.6	Yes	100.9	Yes	95 - 105

Additional heads inspected and determined to be within +/-2%:	n/a
Additional service, preventative maintenance, or calibration notes:	As found readings taken. Repaired Fan motor housing support. 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 and Technology (NIST) or have been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. 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. Calibration results relate only to the items listed above; in particular, 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).

<u>Measurement Standards</u>			
ID	Description	Last Cal.	Cal. Due
W-T95451823008	Velocity	5/28/2019	5/27/2020
W-6530-181276507	Temperature & Pressure	5/15/2018	5/15/2020

Work performed by / date: Michael Tealup 10/7/2019 Reviewed by / date: [Signature] 10/7/2019