BIOSCIENCE INTERNATIONAL

Innovative Microbiology Products
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CERTIFICATE OF CALIBRATION

Model:	SAS Super 100
Air Sampler Serial #:	04-C-02947
Air Sampler Head Serial #:	6163
Customer:	Aerobiology Laboratory Associates
Customer Asset ID #:	Unit #5
Calibration performed at:	JBW site 10242 Little Rock Ln Frederick, MD 21702

Cal. Date:	17 Nov 2020	
Cal. Due:	17 Nov 2021	(12 months)
Procedure:	EOP-030	
Certificate #:	04-C-02947-2152	
Volume sampled (L):	1000	
Calibrated w/media type:	BBL TSA Petri	
Plate Lot #:	0210542	
Plate Exp Date:	1/4/2021	

	As Found	*In Tolerance*	*As Left*	*In Tolerance*	*Acceptable Range*
Battery output (Volts):	9.9	n/a	9.6	n/a	>8.2
Temperature (F^0):	68.9	n/a	68.9	n/a	59 - 95
Barometric pressure (in. HG):	30.0	n/a	30.0	n/a	n/a
Time to sample 1000 Liters (min)	9.55	n/a	9.89	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	0.286	n/a	n/a
Standardized Air Flow (L/min)	104.7	**Yes**	101.1	**Yes**	95 - 105

Additional heads inspected and determined to be within +/-2%:	n/a
Additional service, preventative maintenance, or calibration notes:	n/a

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	*Description*	*Last Cal.*	*Cal. Due*
J-T95451921005	Velocity	7/29/2020	7/29/2021
J-6530-181788940	Temperature & Pressure	12/7/2018	12/7/2020

Work performed by / date: _____ / 11-17-20 Reviewed by / date: _____ / 11-17-20