

Ace Lab Systems

1550 S. Kingshighway St Louis, MO 63110 Tel: (314) 771-7272 Fax: (314) 771-6956

Biological Safety Cabinet Test Report: 9-160126-2

Next Test Due

Work Order #: 114898 WWW AceLabSystems Com January 2017 Service Reresentative: Institution: DataRecovery.com Brooks, Darryl Department: Date Tested: 01 - 26 - 16n/a Address: 110 North Research Dr. Instrument Manufacturer: Enviroco Edwardsville, IL 62025 City, State, ZIP: Model: 111-Z04-UL Contact: Laura Hunter Serial #: S09-120-00790 Phone Number: 1-800-237-4200 ext 263 Location: Lab

This unit meets the requirements of the following standards of specifications as of this date. Testing was performed in accordance with the criteria established by the National Sanitation Foundation, Standard Number 49 and/or Federal Standard 209E Tests Conducted Final Testing Results ▼ Particle Count ▼ Electrical Safety ✓ Unit Certified Unit Not Certified HEPA Filter Leak Test Decontamination Remarks: Final Test Satisfactory *work area meet class 5 per USP797 Velocity Profile and Volume Federal Standard 209E and class 100 per ISO 14644-1 ▼ Face Velocity NSF No 49 Mag Gauge Reading Airflow Smoke Patterns Manufacturer Specifications Lighting Intensity n/a Other n/a n/a E 95 Rear: X n/a n/a Center: h n/a n/a Front: а Sash Opening: n/a S t n/a n/a Feet Per Minute Average Exhaust Velocity: Range n/a Effective Filter Area: Square Feet 80-120 Average Downflow Velocity: 84 _ Feet Per Minute n/a n/a Exhaust Air Volume: Cubic Feet Per Minute Range Range Smoke Airflow Patterns Work Access Opening Airflow This test insures that airflow is inward along the entire perimeter of the work Area of Access Opening: __n/a_ Square Feet access opening, that airflow within the work area is downward with no dead n/a Feet Per Minute n/a Calculated Velocity: _ spots or refluxing, that outside air does not pass on or over the work surface, and there is no refluxing or escape of smoke from the biological safety cabinet Range Measured Velocity: 11/9 Feet Per Minute Meets Specifications Inside Cabinet **HEPA Filter Leak Test** No leaks above 0 01% Leaks Found Leaks Repaired Centerline of the work surface, 4 inches ☐ Yes ☐ No above the top of the work access opening Aerosol penetration shall not exceed 0.01% One inch behind window, 6 inches above ☐ Yes ☐ No 🔽 N/A Lighting Intensity the top of the work access opening Visible Lighting Intensity: 25 Foot Candles at work Surface **Outside Cabinet** U.V. Lighting Intensity: n/a uW/cm sqr at work surface Along the entire Perimeter of the work ☐ Yes ☐ No 📝 N/A access opening, 1.5 in from opening Electrical Safety **▼** Pass Fail If Sliding Window Present ☐ Yes ☐ No ▼ N/A inside Cabinet below the wiper gasket **Equipment Used** Make and Model Serial # Cal Date Aerosal Photometer: PH-4 1929 10/15 Air Velocity Meter: TSI-9535A 1545007 11/15

A2400

Particle Counter:

000100515

09/15

ISO 14644-1:1999(E)

Report for Area: S09-120-00790 Report Date: 1/26/2016

ACE ELECTRIC LAB SYSTEMS 1550 KINGSHIGHWAY ST. LOUIS, MO 63110 USA

Test Start: 1/26/2016 1:15:00PM

Occupancy State: At-rest

Clean Zone Area: 1.00 Sq. Meters

Test End: 1/26/2016 1:22:14PM

Target Class: 5

Minimum Number of Locations: 1

Counter: MetOne A2400

Test Result

Serial Number: 000100515

Location Averages	0.5 μm	No	. SPMples User
1	0.00		1
2	6.00		1
3	0.00		1
4	2.00		1
5	0.00		1
Mean of Averages Standard Deviation	57 06 92 79		
Standard Error	41.06		
95% UCL	143.90		
ISO Class 5 Limit	3,520.00		

Overall Test Result: PASSES for ISO Class 5

PASS