

Biological Safety Cabinet Test Report



SENTRY AIR SYSTEMS, INC.

21221 FM 529

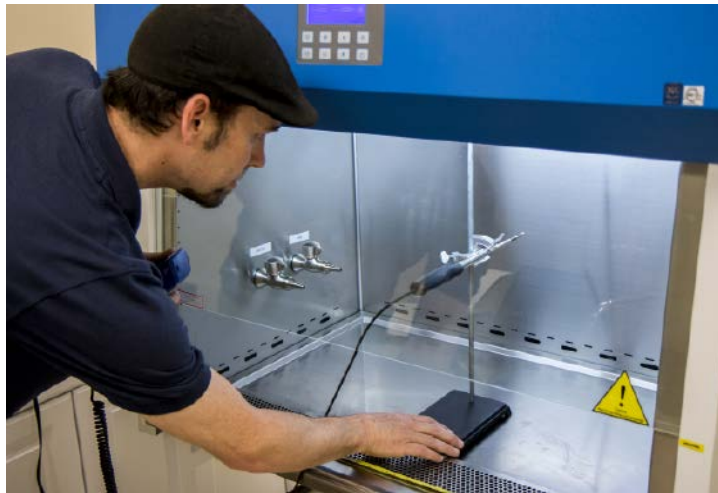
Cypress, Texas 77433

TEL | 800.799.4609

EMAIL | sales@sentryair.com

WEB | www.sentryair.com

"Simple Solutions for Cleaner Air"™





BIOLOGICAL SAFETY CABINET TEST REPORT

Customer	SENTRY AIR SYSTEMS	ENV Services Technician	JASON PLUNKETT NSF#
Address	21221 FM 529	Test Date	04/27/2017
	CYPRESS, TX 77433	Test Frequency	Certification - Annual
Contact	OMAR ISLSEVAR	Equipment Manufacturer	SENTRY AIR SYSTEMS
Telephone	713/690-2153	Model	BIOBASE - 11235BBC8C
Extension		Serial Number	3FA1609017
		Type	Class II, A2 BSC
		Location	LAB

Testing and Certification: The purpose of field testing this equipment is to assess whether it is functioning as designed in compliance with the specifications, outlined in the appropriate version of NSF/ANSI-49. We perform all test procedures in accordance with these standards and specifications as detailed in ENV Services Procedures, applicable copies of which are available on request. Our testing and certification apply only to the equipment above, and do not signify approval of the use of any hazardous agents or operational procedures.


SERVICE SUMMARY	PASS	FAIL	N/A
OVERALL CERTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Containment tests performed:			
HEPA Filter Leak Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airflow Smoke Patterns	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Downflow Velocity Profile Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inflow Velocity Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site Installation Assessment Tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cabinet Leak Test	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worker comfort and safety tests performed:			
Noise level test was not done.			
Light level test was not done.			
Electrical results:			
0.000 ohms			
Polarity was not tested			
Repairs performed:			
<input checked="" type="checkbox"/> None			
<input type="checkbox"/> Filter Leaks Repaired			
<input type="checkbox"/> Structural Repairs Made			
<input type="checkbox"/> Filters Replaced			
<input type="checkbox"/> Airflow Adjusted			
<input type="checkbox"/> Pressure Gauge Adjusted			
<input type="checkbox"/> Warning Alarm System			
<input type="checkbox"/> Electrical System Repaired			
<input type="checkbox"/> Other: _____			

EQUIPMENT UTILIZATION SURVEY	Chemicals Non-Carcinogens
Use Research	Isotopes NO
Biological Agent Used	Surface Decontamination Performed Yes Using Isopropyl Alcohol
Biosafety Classification N/A	Formaldehyde Gas Decontamination Performed No
Tissue/Cell Cultures	Decontamination Report # N/A

COMMENTS AND RECOMMENDATIONS

SITE INSTALLATION	Exhaust Alarm or Interlock Functional N/A	Cabinet Exhaust Vented to Room
	Sash Alarm Function PASS	Exhaust Connection Pressurization N/A

Customer: _____ Signature _____

Service Technician:  Signature _____ Date: 27-Apr-17

_____ Please print name



BIOLOGICAL SAFETY CABINET TEST REPORT

Test Report Number
TX4058:170427:101159

For: SENTRY AIR SYSTEMS
Model: BIOBASE
S/N: 3FA1609017

(800)345-6094

HEPA FILTER LEAK TEST

Supply Filter Quantity/Size: SEE MANUFACTURER
Leaks Detected Media: 0 Gasket: 0 Structural: 0
Leakage Repaired with NO LEAKS
Approximate Filter Obstruction Caused by Repairs 0.0 %

Exhaust Filter Quantity/Size: SEE MANUFACTURER
Leaks Detected Media: 0 Gasket: 0 Structural: 0
Aerosol Challenge Concentration: ≥ 10 MicroGms/Liter PAO
Filter Scanning Rate: 2 inches per second

Overall Test Result: PASS

AIRFLOW SMOKE PATTERNS

Smooth downward flow with no dead spots or reflux PASS
No Smoke escapes from the cabinet PASS
No outside smoke billows over the work surface PASS

No outside smoke penetrates onto the work surface PASS
No upward refluxing toward the sash wiper seal PASS
No escape of smoke through the sash wiper seal PASS
No external turbulence at front access opening PASS

Cause of external turbulence, if any _____

Overall Test Result: PASS

SECONDARY TESTS AND TEST EQUIPMENT

				Criteria	
NOISE	Total	OdbA Ambient	OdbA Corrected	OdbA ≤ 70 dbA Corrected	N/A
LIGHTING	Average	0FC Background	0FC	Avg. 45 FC > Bkgd, Bkgd ≤ 15 FC	N/A
ELECTRICAL	Line Voltage	0 VAC		N/A	N/A
	Ground Resistance	0.000 ohms		≤ 0.15 ohms or meter min. sensitivity	N/A
	Polarity	N/A		Must be correct	N/A
	Ground Fault Interrupter	N/A		Trips when tested	N/A
UV LIGHT	At the work level	Microwatts/square centimeter		None	N/A

Velometer Model: 9535

S/N: 101829

Cal. Date: 11/11/2016

Photometer: TDA-2H

S/N: 101340 Cal. Date: 09/19/2016

DOWNFLOW VELOCITY PROFILE TEST AND INFLOW VELOCITY TEST

	Avg. Vel.	Specification	Uniformity	Inflow	Area	Volume	Pressure/Flow Gauge Reading	Inflow Method	Calculated
Inflow	103 fpm	100 - 110	N/A	Inflow	2.00 ft ²	205 cfm	Gauge Zeroed	N/A	
Exhaust	273 fpm	N/A	N/A	Exhaust	0.7500 ft ²	205 cfm	Fan Speed Adjustment Made	No Change	
Downflow	68 fpm	60 - 70 fpm	7%				Final Fan Speed	60%	
				Dens. Corr.	1.000	0 elevation	Specification Used	11235	

Overall Downflow Velocity Profile Test Result: PASS

Overall Inflow Velocity Test Result: PASS

AIR VELOCITY PROFILES:

Downflow Grid:

66	70	69	68	69	63	66	70
67	68	70	69	70	70	69	70
69	66	65	65	68	67	70	70

Exhaust Grid:

272	274	273	275	271	274	272	274
-----	-----	-----	-----	-----	-----	-----	-----