

Biological Safety Cabinet Test Report : 9-140115-3

Work Order #: \_\_109500\_\_

Next Test Due
Jan 2015

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Institution:	Datarecovery.com	Service Rer	esentative:	Brooks, Dar	ryl	
Department: N/A		Date Tested:		01-15-14		
	110 North Research Dr.	Instrument Ma	nufacturer:	Enviro		
City, State, ZIP:	Edwardsville, IL 62025	_	Model:	111-Z04-UL		
Contact:	Laura Hunter		Serial #:	S09-120V-00	790	
Phone Number:	(800) 237-4200		Location:			_
	following standards of specifications as National Sanitation Foundation, Standards			nce with the criteri	ia established b	У
Tests Co	onducted		Final Testin	g Results		
✓ Particle Count	✓ Electrical Safety	✓ Unit Certified ☐ Unit Not Certified				
✓ HEPA Filter Leak Test	Decontamination		E' 1E G ' C			
Velocity Profile and Volume	Federal Standard 209E	T COTTO		neet class 5 per ISO		
✓ Face Velocity	NSF No. 49		14644-1	class 5 per 1k		
Airflow Smoke Patterns	✓ Manufacturer Specifications	Mag Gauge 14044-1 Reading				
✓ Lighting Intensity		n/a				
Other						
	T	n/a	n/a			_
- + + + + + +	93 90 95 83 90 116	Real.	L		<u> </u>	
	78 84 88 90 92 99	Center: n/a	n/a	1 1	$\top$ $\top$ $\top$ $\downarrow$ $\downarrow$	
	84 81 86 87 92 87	Front: n/a	n/a	_ + + -	+ + 1	
- + + + + + +	+++++	-	<del> </del>	- + + -	+ + -	
- + + + + + +	++++++	Sash	v <sub>o</sub>	_ + + -	+ + 1	Į
		Opening: In	$\frac{1}{a}$	1 1	! ! S	5
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		_	ـــــــا			
Supply		Average Exhaust	,	Per Minute	n/a	
Average Downflow Velocity:	Feet Per Minute 80-120	Effective Fil		e Feet	Range	
, –	Range	Exhaust Air	Volume: n/a Cubic	Feet Per Minute	n/a Range	
Smoke Airflo	w Patterns	\	Nork Access Openi	na Airflow	range	_
This test insures that airflow is inward	along the entire perimeter of the work	Area of Access				
access opening, that airflow within the	work area is downward with no dead		,		/-	
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.		Calculated		Per Minute	n/a Range	
and more to he remaking or eccupe or a	more from the biological safety cabillet.	Measured	Velocity: n/a Feet F	Per Minute	Range	
Inside Cabinet	Meets Specifications		HEPA Filter Le	eak Test		
Centerline of the work surface, 4 inches		✓ No leaks	above 0.01% Leaks	s Found Lea	ks Repaired	
above the top of the work access openi	ng.	Acceptano	e: Aerosol penetra	ation shall not exc	eed 0.01%	
One inch behind window, 6 inches above	ve Yes No √N/A					_
the top of the work access opening.	100 110		Lighting Inten	-		
Outside Cabinet		Visible Lightin	ig Intensity:83 Foo	ot Candles at worl	k Surface	
Along the entire Perimeter of the work		U.V. Lightin	ig Intensity:n/auW	/cm sqr. at work s	surface	
access opening, 1.5 in. from opening.	Yes No ✓ N/A		Electrical Sof	otv		
			Electrical Saf	-		
If Sliding Window Present		V 1		Fail		_
nside Cabinet below the wiper gasket.  ☐ Yes ☐ No ▼ N/A			Equipment Us	ed		
			Make and Model	Serial#	Cal Date	
		Aerosal Photometer	TDA-2EL	9623	03-13	
David Run	she	Air Velocity Meter	TSI 8346	97110212	11-13	
Field Service Engineer		Particle Counter	: A2400	00100515	09-13	

## ISO 14644-1:1999(E)

Report for Area: Clean Air Products Report Date: 01/15/2014

> DataRecovery.com 110 North Research Dr. Edwardsville , IL 62025 USA

Testing performed by
Darryl Brooks
ACE Electric Lab Systems
1550 S. Kingshighway
St. Louis, MO 63110
USA

Test Start: 1/15/2014 13:58:16PM

Occupancy State: At-rest

Clean Zone Area: 1.00 Sq. Meters

Test End: 1/30/2014 14:02:56PM

Target Class: 5

Minimum Number of Locations: 5

Counter: 000100515

Serial Number: 000100515

Location Averages	0.5 μm	No. Samples	User
1	5.00	1	
2	3.00	1	
3	3.00	1	
4	0.00	1	
5	0.00	1	

Mean of Averages	2.20
Standard Deviation	2.20
Standard Error	1.00
95% UCL	4.30
ISO Class 5 Limit	3,520.00
Test Result	PASS

Overall Test Result: PASSES for ISO Class 5

## Federal Standard 209e

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ISO Class 5 Limit	3,520.00
Test Result	PASS

Overall Test Result: PASSES for FS209e Class 100