



**GAYNES LABS, INCORPORATED**  
9708 INDUSTRIAL DRIVE • BRIDGEVIEW, ILLINOIS 60455

MEMBER: AMERICAN COUNCIL OF INDEPENDENT LABORATORIES

PHONE: 708-233-6655

FAX: 708-233-6985

EMAIL: [gayneslabs@aol.com](mailto:gayneslabs@aol.com)

WEBSITE: <http://gaynestesting.com>

Kewaunee Scientific Corporation  
2700 West Front Street  
Statesville, NC 28677-2927

September 25, 2012

**Attention:** Mr. Jeremy Miller

**Regarding:** SEFA Testing of a Wood Base Cabinet, Wall Cabinet and Table  
Gaynes Labs Job No. 12483 Kewaunee P.O. No. A28130

Dear Mr. Miller:

This report indicates the procedures and results of the testing that was conducted on one wood base cabinet, wall cabinet, and one wood table submitted by Kewaunee Scientific Corporation. Testing was conducted in accordance with the Scientific Equipment and Furniture Association (SEFA) 4th Edition Version 1.0, 2010 test methods. Testing was conducted at Gaynes Labs, Incorporated, Bridgeview, Illinois.

**TEST ITEMS:**

Wood Base Cabinet: Combination of a cupboard and one drawer. 48" wide x 21 1/4" deep x 35" high (dimensions do not include drawer or door front thickness). The drawer was above the cupboard, full width and approximately one-fourth the height of the cabinet's face opening. Drawer depth outside dimension is 18 1/2". The cupboard is a double-door design and provides unobstructed entry into the cabinet interior with the doors open. The unit was supplied with one adjustable shelf. The cabinet back is designed with a removable panel (panel was removed during testing). The cabinet has full height end panels with integral toeboard.

Wood Wall Cabinet: 48" wide x 30" high x 12" deep (without doors). The cabinet is all wood construction with a double-door design that provides unobstructed entry into the cabinet interior with the doors open. The cabinet is equipped with two wood shelves that can be mounted at various heights.

Wood Frame Table: 59" wide x 21 1/8" deep x 35" high (dimensions exclude top). Top: 23" x 60" x 1" thick. Table frame is all wood with four square legs and is free standing.

**Description of Test**

**Result**

**4.0 Base Cabinets**

4.2 Cabinet Load Test (Photo 1)	Meets Acceptance Level
4.3 Cabinet Concentrated Load Test (Photo 2)	Meets Acceptance Level
4.4 Cabinet Torsion Test (Photo 3)	Meets Acceptance Level
4.5 Cabinet Submersion Test (Photo 4)	Meets Acceptance Level

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<u>Description of Test</u>	<u>Result</u>
<b><u>5.0 Doors</u></b>	
5.1 Door Hinge Test (Photo 5)	Meets Acceptance Level
5.3 Door Cycle Test (Photo 6)	Meets Acceptance Level
<b><u>6.0 Drawers</u></b>	
6.1 Drawer Static Test (Photo 7)	Meets Acceptance Level
6.3 Drawer Impact Test (Photo 8)	Meets Acceptance Level
6.4 Drawer Internal Rolling Impact (Photo 9)	Meets Acceptance Level
6.5 Drawer Cycle Test, 75 pound load (Photo 10)	Meets Acceptance Level
<b><u>7.0 Shelving</u></b>	
7.2 Shelf Load Test (Photo 11)	Meets Acceptance Level
<b><u>8.0 Cabinet Surface Finish Tests</u></b>	
8.1 Chemical Spot Test (see attached data sheet)	Meets Acceptance Level
8.2 Hot Water Test (Photo 12)	Meets Acceptance Level
<b><u>9.0 Wall Cabinets, Counter Mounted and Tall Units</u></b>	
9.2 Load Test (Photo 13)	Meets Acceptance Level
<b><u>10.0 Tables</u></b>	
10.2 Table Static Load Test (Photo 14)	Meets Acceptance Level
10.3 Table Racking (Photo 15)	Meets Acceptance Level

Photographs and data sheets of the testing program shall be kept on file at Gaynes Labs, Inc. Please contact me if you have questions or need additional information regarding this test program.

Report Prepared By:   
Leonard Roesner

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### CHEMICAL RESISTANCE TESTING -8W-2010

Rating Scale: Level 0 - No detectable change.

Level 1 - Slight change in color or gloss.

Level 2 - Slight surface etching or severe staining.

Level 3 - Pitting, cratering, swelling, or erosion of coating. Obvious and significant deterioration.

### TEST RESULTS:

<u>#</u>	<u>Chemical</u>	<u>SEFA Range</u>	<u>Gaynes Rating</u>	<u>Comments</u>
1.	Amyl Acetate	0-1	0	
2.	Ethyl Acetate	0-1	0	
3.	Acetic Acid, 98%	0-1	0	
4.	Acetone	0	0	
5.	Acid Dichromate, 5%	0-1	1	
6.	Alcohol, Butyl	0-1	0	
7.	Alcohol, Ethyl	0	0	
8.	Alcohol, Methyl	0-1	0	
9.	Ammonium Hydroxide. 28%	0-2	0	
10.	Benzene	0-1	0	
11.	Carbon Tetrachloride	0-1	0	
12.	Chloroform	0		
13.	Chromic Acid 60%	0-1	1	
14.	Cresol	0-2	0	
15.	Dichloroacetic Acid	0-3	0	
16.	Dimethylformamide	0-2	1	
17.	Dioxane	0-1	0	
18.	Ethyl Ether	0-1	0	
19.	Formaldehyde, 37%	0	0	
20.	Formic Acid, 90%	0-1	1	
21.	Furfural	0-1	1	
22.	Gasoline	0	0	
23.	Hydrofluoric Acid, 37%	0-2	0	
24.	Hydrofluoric Acid, 48%	0-2	1	
25.	Hydrogen Peroxide, 30%	0-1	0	
26.	Tincture of Iodine	0-2	1	
27.	Methyl Ethyl Ketone	0	0	
28.	Methylene Chloride	0-1	2	
29.	Mono Chlorobenzene	0-1	0	
30.	Naphthalene	0	0	
31.	Nitric Acid, 20%	0	0	
32.	Nitric Acid, 30%	0-2	0	
33.	Nitric Acid, 70%	2-3	2	

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34.	Phenol, 90%	0-2	0
35.	Phosphoric Acid, 85%	0-1	0
36.	Silver Nitrate Saturated	0-1	0
37.	Sodium Hydroxide 10%	0-2	1
38.	Sodium Hydroxide 20%	0-2	1
39.	Sodium Hydroxide 40%	0-2	0
40.	Sodium Hydroxide Flake	0	0
41.	Sodium Sulfide Saturated	0	0
42.	Sulfuric Acid, 33%	0-1	0
43.	Sulfuric Acid, 77%	0-1	0
44.	Sulfuric Acid, 96%	1-3	0
45.	Sulfuric Acid 77% and Nitric Acid 70% equal parts	1-3	1
46.	Toluene	0	0
47.	Trichloroethylene	0	0
48.	Xylene	0-1	0
49.	Zinc Chloride, Saturated	0	0

8.1.3 Acceptance Level - "The Range of results is provided to establish the acceptable range for Laboratory Grade Finish. Results will vary from manufacturer to manufacturer due to differences in finish formulaations. Laboratory Grade finishes shall result in no more than four (4) Level 3 conditions. Individual test results for the specified 49 reagents will be verified with the established third party, independent SEFA 8 test submittal form. Suitability for a given application is dependent upon the chemicals used in a given laboratory."

### **TEST CONCLUSION:**

The test results indicate that the submitted coated wood panel meets the SEFA 8-W-2010 Recommended Practices for Wood Laboratory Grade Furniture, Casework, Shelving, and Tables, Section 8.1 Chemical Spot Test.

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Photo 1: 4.2 Cabinet Load Test



Photo 2: 4.3 Cabinet Concentrated Load Test

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Photo 3: 4.4 Cabinet Torsion Test



Photo 4: 4.5 Cabinet Submersion Test

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Photo 5: 5.1 Door Hinge Test



Photo 6: 5.3 Door Cycle Test

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Photo 7: 6.1 Drawer Static Test



Photo 8: 6.3 Drawer Impact Test



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Photo 9: 6.4 Drawer Internal Rolling Impact



Photo 10: 6.5 Drawer Cycle Test

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Photo 11: 7.2 Shelf Load Test



Photo 12: 8.2 Hot Water Test

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Photo 13: 9.2 Wall Cabinet Load Test



Photo 14: 10.2 Table Static Load Test

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Photo 15: 10.3 Table Racking Test

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### **GENERAL STATEMENT COVERING THIS REPORT**

This report is submitted for the exclusive use of Kewaunee Scientific Corporation. Its significance is subject to the representative nature of the samples submitted and the tests and examinations made. No quotations from this report or use of the Gaynes Labs, Incorporated name is permitted except as expressly authorized by Gaynes Labs, Incorporated in writing.

Gaynes Labs, Incorporated assumes no responsibility for the result of the observance or non-observance by Kewaunee Scientific Corporation. of the product standard contained in this report or upon the relations between Kewaunee Scientific Corporation. and any party or parties arising out of the sale or use of the product or otherwise.

Kewaunee Scientific Corporation. shall indemnify and hold harmless Gaynes Labs, Incorporated, its employees and agents from any and all claims, demands, actions, and costs that may arise out of:

- (a) Any dangerous defect or content in the item being tested, whether apparent or not, which dangerous defect or content was not disclosed in writing to Gaynes Labs, Incorporated by Kewaunee Scientific Corporation. at the time the item was submitted for testing;
- (b) Differences between those items actually tested and items previously or subsequently produced which are purported to be identical to the item tested;
- (c) Any use of the tested item, whether by Kewaunee Scientific Corporation. or a third party, following its return to the Kewaunee Scientific Corporation. from Gaynes Labs, Incorporated.

**Gaynes Labs, Inc.**

A handwritten signature in cursive script, reading "Leonard Roesner", is written over a horizontal line.

**Leonard Roesner**