

**NVLAP Bulk Asbestos Proficiency Test
M12022**

Individual Laboratory Results

May 31, 2022

NVLAP Lab Code 200655

Hawaii Analytical Laboratory, LLC
3615 Harding Ave., Suite 308
Honolulu, HI 96816-3759
United States

PROFICIENCY TEST PENALTY POINTS

Sample 1	0
Sample 2	0
Sample 3	0
Sample 4	0
Other *	0
TOTAL POINTS:	0

Failure = 150 or more total points

* Penalty points are assigned for failure to follow instructions. Details for error points assigned (if any) are listed below:

Prepared by RTI International for
Participants in NIST's National Voluntary Laboratory Accreditation Program
For Bulk Asbestos Analysis by PLM

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Sample 1

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	NONE	NONE	NONE	
Reporting Actinolite or Tremolite > 0.1 % (50 pts.)		NONE	None, Trace Actinolite, or Trace Tremolite	

Total Points Assigned for Sample 1: 0

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Sample 2 Type 1

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	CHRY	Chrysotile	Chrysotile	
Mean % Asbestos (50 pts.)	3	2.4 %	0.1 % to 5.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$. Max penalty 80 pts.)	$\alpha = 1.550$ $\gamma = 1.556$	$\alpha = 1.549$ $\gamma = 1.556$	α : 1.546 to 1.553 γ : 1.551 to 1.561	
Birefringence (10 pts.) *	L	Low	Low or Moderate *	
Pleochroism (10 pts.)	N	No	No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless	

** Birefringence results must be correctly calculated based on participant measured refractive index values.*

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Sample 2 Type 2

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	AMOS	Amosite	Amosite	
Mean % Asbestos (50 pts.)	5	3.4 %	0.1 % to 7.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$. Max penalty 80 pts.)	$\alpha = 1.680$ $\gamma = 1.695$	$\alpha = 1.678$ $\gamma = 1.699$	α : 1.673 to 1.686 γ : 1.690 to 1.706	
Birefringence (10 pts.) *	M	Moderate	Low or Moderate *	
Pleochroism (10 pts.)	N	Yes	Yes or No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless, Brown, or Green	

** Birefringence results must be correctly calculated based on participant measured refractive index values.*

Total Points Assigned for Sample 2: 0

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Sample 3

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	CHRY	Chrysotile	Chrysotile	
Mean % Asbestos (50 pts.)	5	5.3 %	1.0 % to 9.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$. Max penalty 80 pts.)	$\alpha = 1.549$ $\gamma = 1.556$	$\alpha = 1.549$ $\gamma = 1.556$	α : 1.546 to 1.553 γ : 1.551 to 1.560	
Birefringence (10 pts.) *	L	Low	Low or Moderate *	
Pleochroism (10 pts.)	N	No	No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless	
Reporting Additional Asbestos Type (150 pts. If > 0.1 %, 75 pts. if 0.1 %) Reporting Actinolite or Tremolite > 1.0 % (50 pts.)		NONE	None or Trace to 1.0 % Actinolite or Tremolite	

** Birefringence results must be correctly calculated based on participant measured refractive index values.*

Total Points Assigned for Sample 3: 0

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Sample 4

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type > 0.1 %, 75 pts./type if 0.1 %)	CHRY	Chrysotile	Chrysotile	
Mean % Asbestos (50 pts.)	6	4.2 %	0.1 % to 8.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$. Max penalty 80 pts.)	$\alpha = 1.551$ $\gamma = 1.559$	$\alpha = 1.550$ $\gamma = 1.558$	α : 1.546 to 1.553 γ : 1.551 to 1.561	
Birefringence (10 pts.) *	L	Low	Low or Moderate *	
Pleochroism (10 pts.)	N	No	No	
Extinction (10 pts.)	P	Parallel	Parallel	
Sign of Elongation (10 pts.)	P	Positive	Positive	
Color (10 pts.)	CL	Colorless	Colorless	
Reporting Additional Asbestos Type (150 pts. if > 0.1 %, 75 pts. if 0.1 %)		NONE	NONE	

* Birefringence results must be correctly calculated based on participant measured refractive index values.

Total Points Assigned for Sample 4: 0

NVLAP Laboratory Contacts

NVLAP Lab Code 200655

Hawaii Analytical Laboratory, LLC

Please review your contact information below and make sure it is accurate. If there are any changes, please update your information on the RTI website, <https://nvlap-plm.rti.org/>. Also, NVLAP no longer sends the NVLAP Authorized Contact list to RTI at the start of each round. When your NVLAP Authorized Representative changes, please contact NVLAP, nvlap@nist.org, and update your primary contact information on the RTI website.

Laboratory Primary Contact (NVLAP Authorized Contact)

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Thank you for participating in the NVLAP Bulk (PLM) Proficiency Testing Program.