

# NVLAP Bulk Asbestos Proficiency Test

## M22022

Individual Laboratory Results

November 21, 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
<b>TOTAL POINTS:</b> .....	<b>0</b>

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 %)	TREM	Tremolite	Tremolite	
Mean % Asbestos (50 pts.)	0.1	1.1 %	0.1 % to 3.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$ . Max penalty 80 pts.)	$\alpha = 1.608$ $\gamma = 1.637$	$\alpha = 1.612$ $\gamma = 1.635$	$\alpha$ : 1.603 to 1.621 $\gamma$ : 1.629 to 1.641	
Birefringence (10 pts.) *	M	Moderate	Low or Moderate *	
Pleochroism (10 pts.)	N	No	No	
Extinction (10 pts.)	I	Inclined	Inclined	
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 1: 0

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## Sample 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 %)	NONE	None	None or Chrysotile	
Mean % Asbestos (50 pts.)		0.0 %	None or 0.1 % to 1.0 % Chrysotile	

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 %)	AMOS	Amosite	Amosite	
Mean % Asbestos (50 pts.)	2	4.1 %	1.0 % to 7.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$ . Max penalty 80 pts.)	$\alpha = 1.680$ $\gamma = 1.695$	$\alpha = 1.677$ $\gamma = 1.699$	$\alpha$ : 1.675 to 1.684 $\gamma$ : 1.691 to 1.705	
Birefringence (10 pts.) *	M	Moderate	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 or Brown	
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 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.)	15	20.2 %	5.0 % to 35.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$ . Max penalty 80 pts.)	$\alpha = 1.551$ $\gamma = 1.557$	$\alpha = 1.550$ $\gamma = 1.557$	$\alpha$ : 1.546 to 1.552 $\gamma$ : 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](mailto:nvlap@nist.org), and update your primary contact information on the RTI website.

#### **Laboratory Primary Contact (NVLAP Authorized Contact)**

Anne Antin

Email: [aantin@analyzehawaii.com](mailto:aantin@analyzehawaii.com)

Phone: 808-735-0422

#### **Laboratory / Shipping Contact**

Anne Antin

3615 Harding Ave., Suite 308

Honolulu, HI 96816-3759

United States

Email: [aantin@analyzehawaii.com](mailto:aantin@analyzehawaii.com)

Phone: 808-735-0422

#### **Laboratory Billing Contact**

Rozlyn Luber

Email: [rluber@analyzehawaii.com](mailto:rluber@analyzehawaii.com)

Phone: 8087350422

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