

NVLAP Bulk Asbestos Proficiency Test

M12021

Individual Laboratory Results

July 9, 2021

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	50
Other *	0
TOTAL POINTS:	50

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 %)	CHRY	Chrysotile	Chrysotile	
Mean % Asbestos (50 pts.)	2	3.2 %	0.1 % to 6.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$)	$\alpha = 1.554$ $\gamma = 1.559$	$\alpha = 1.551$ $\gamma = 1.558$	α : 1.547 to 1.554 γ : 1.554 to 1.562	
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 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 %)	CHRY	Chrysotile	Chrysotile	
Mean % Asbestos (50 pts.)	8	5.8 %	0.1 % to 10.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$)	$\alpha = 1.554$ $\gamma = 1.559$	$\alpha = 1.550$ $\gamma = 1.557$	α : 1.545 to 1.554 γ : 1.550 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 Actn or Trem is not required because Actinolite is distributed inhomogeneously throughout this sample lot, therefore it may or may not be present in your individual subsample.				
Reporting Actn or Trem (50 pts. if > 0.1 %) Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)		Actinolite (trace)	None, Actinolite, or Tremolite	

** 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 %)	NONE	None	None	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)		None	None	

Total Points Assigned for Sample 3: 0

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Sample 4 – 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.)	6	4.6 %	1.0 % to 8.0 %	
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$)	$\alpha = 1.554$ $\gamma = 1.559$	$\alpha = 1.550$ $\gamma = 1.557$	α : 1.546 to 1.554 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.*

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Sample 4 – 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 %)	ACTN	Actinolite	Actinolite / Tremolite	
Mean % Asbestos (50 pts.)	8	3.4 %	0.1 % to 7.0 %	50
Average Refractive Index (40 pts. each index, 10 pts. if $\gamma \leq \alpha$)	$\alpha = 1.622$ $\gamma = 1.639$	$\alpha = 1.614$ $\gamma = 1.637$	α : 1.599 to 1.636 γ : 1.618 to 1.653	
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 4: 50

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.

RTI Primary Contact (NVLAP AUTHORIZED CONTACT)

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