

NVLAP Bulk Asbestos Proficiency Test

M12020

Individual Laboratory Results

June 30, 2020

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

TOTAL POINTS: **0**

Failure = 150 or more total points

Prepared by RTI International

for

NIST's National Voluntary Laboratory Accreditation Program

For Bulk Asbestos Analysis by PLM

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Sample 1 – 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 %)	AMOS	Amosite	Amosite	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	10	9.4 %	4.0 % to 14.0 %	
Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$)	$\alpha = 1.680$ $\gamma = 1.695$	$\alpha = 1.679$ $\gamma = 1.698$	α : 1.674 to 1.685 γ : 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, Brown, or Other	

** Birefringence results that are correctly calculated based on participant refractive index values will not receive penalty points even if they differ from the reference value. Beginning in round M12019, reported birefringence results that are inconsistent with the reported refractive index values receive penalty points.*

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Sample 1 – 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 %)	CHRY	Chrysotile	Chrysotile	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	5	4.9 %	0.1 % to 10.0 %	
Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$)	$\alpha = 1.550$ $\gamma = 1.558$	$\alpha = 1.550$ $\gamma = 1.555$	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	

** Birefringence results that are correctly calculated based on participant refractive index values will not receive penalty points even if they differ from the reference value. Beginning in round M12019, reported birefringence results that are inconsistent with the reported refractive index values receive penalty points.*

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

Total Points Assigned for Sample 2: 0

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Sample 3 – 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	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	4	4.5 %	0.1 % to 9 %	
Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$)	$\alpha = 1.552$ $\gamma = 1.559$	$\alpha = 1.549$ $\gamma = 1.555$	α : 1.545 to 1.554 γ : 1.549 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	

** Birefringence results that are correctly calculated based on participant refractive index values will not receive penalty points even if they differ from the reference value. Beginning in round M12019, reported birefringence results that are inconsistent with the refractive index values receive penalty points.*

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Sample 3 – Type 2

Criteria	Reported by Laboratory	Mean Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (Actinolite inhomogeneously distributed)		Actinolite ** or None	Actinolite, Tremolite, or None	
Mean % Asbestos (50 pts.)		0.1 %	0.0 % to 1.0 %	

***Actinolite was not confirmed to be present in every sample. Laboratories that reported actinolite or tremolite were only scored on the quantitation. Optical properties of actinolite were not scored for Sample 3.*

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	
Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %)			None	
Mean % Asbestos (50 pts.)	8	10.2 %	2.0 % to 19.0 %	
Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$)	$\alpha = 1.549$ $\gamma = 1.556$	$\alpha = 1.549$ $\gamma = 1.555$	α : 1.545 to 1.554 γ : 1.549 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 that are correctly calculated based on participant refractive index values will not receive penalty points even if they differ from the reference value. Beginning in round M12019, reported birefringence results that are inconsistent with the reported refractive index values receive penalty points.

Total Points Assigned for Sample 4: 0

Contacts

Hawaii Analytical Laboratory, LLC

NVLAP Lab Code 200655

NVLAP AUTHORIZED CONTACT

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RTI cannot update the NVLAP Authorized Contact. To make changes, please contact NVLAP: nvlap@nist.org. NVLAP will periodically provide RTI with the current information.

RTI SHIPPING CONTACT

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Please update your shipping or billing contact information on RTI's NVLAP PLM website: <https://nvlap-plm.rti.org/>.

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