

NVLAP Bulk Asbestos Proficiency Test

M22018

Individual Laboratory Results

April 22, 2019

NVLAP Lab Code 200655

Hawaii Analytical Laboratory, LLC

3615 Harding Ave., Suite 308

Honolulu Hawaii 96816-3759

United States

PROFICIENCY TEST PENALTY POINTS

| | |
|----------------------------|-----------|
| Sample 1 | 0 |
| Sample 2 | 0 |
| Sample 3 | 0 |
| Sample 4 | 50 |
| TOTAL POINTS: | 50 |

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 | AMOS | Amosite | |
| Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %) | | | None | |
| Mean % Asbestos (50 pts.) | 10 | 15.1 % | 8 % to 22 % | |
| Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$) | $\alpha = 1.680$ $\gamma = 1.692$ | $\alpha = 1.679$ $\gamma = 1.698$ | $\alpha: 1.671$ to 1.687 $\gamma: 1.690$ to 1.705 | |
| Birefringence (10 pts.) | M | Moderate | 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 | Green, Brown, or Other | Green, Brown, Other, or 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 will received 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 | CHRY | Chrysotile | |
| Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %) | | | None | |
| Mean % Asbestos (50 pts.) | 1 | 2.6 % | 0.1 % to 5.0 % | |
| Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$) | $\alpha = 1.551$ $\gamma = 1.555$ | $\alpha = 1.549$ $\gamma = 1.554$ | α : 1.539 to 1.558 γ : 1.546 to 1.562 | |
| Birefringence (10 pts.) | L | Low | Low * | |
| 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 will 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

| 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 | CHRY | Chrysotile | |
| Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %) | | | None | |
| Mean % Asbestos (50 pts.) | 4.0 | 5.6 % | 1 % to 11 % | |
| Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$) | $\alpha = 1.553$ $\gamma = 1.559$ | $\alpha = 1.550$ $\gamma = 1.556$ | α : 1.546 to 1.554 γ : 1.550 to 1.561 | |
| Birefringence (10 pts.) | L | Low | Low * | |
| 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 will receive penalty points.*

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 | CHRY | Chrysotile | |
| Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %) | | | None | |
| Mean % Asbestos (50 pts.) | 15 | 8.3 % | 2 % to 14 % | 50 |
| Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$) | $\alpha = 1.551$ $\gamma = 1.556$ | $\alpha = 1.549$ $\gamma = 1.556$ | α : 1.545 to 1.554 γ : 1.550 to 1.562 | |
| Birefringence (10 pts.) | L | Low | Low * | |
| 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 will received penalty points.*

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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 %) | CROC | CROC | Crocidolite | |
| Reporting Additional Asbestos Type (150 pts. if >0.1 %, 75 pts. if 0.1 %) | | | None | |
| Mean % Asbestos (50 pts.) | 5 | 5.6 % | 1 % to 10 % | |
| Average Refractive Index (40 pts. each index, 10 pts. If $\gamma \leq \alpha$) | $\alpha = 1.688$ $\gamma = 1.693$ | $\alpha = 1.693$ $\gamma = 1.698$ | α : 1.675 to 1.711 γ : 1.682 to 1.715 | |
| Birefringence (10 pts.) | L | Low | Low * | |
| Pleochroism (10 pts.) | Y | Yes | Yes | |
| Extinction (10 pts.) | P | Parallel | Parallel | |
| Sign of Elongation (10 pts.) | N | Negative | Negative | |
| Color (10 pts.) | BL | Blue | Blue | |

** 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 will received penalty points.*

Total Points Assigned for Sample 4: 50

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Contacts

Please review your contact information. If your primary information is incorrect or incomplete, please send the updated information to: nvlap@nist.org and winstead@rti.org

PRIMARY NVLAP CONTACT

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

Contact: Anne Antin

Email: aantin@analyzehawaii.com
Phone: 808-735-0422

If your shipping or billing information is incorrect or incomplete, please send the updated information to: winstead@rti.org. If your Primary Contact Information (above) should be used for all contacts, it is not necessary to update your shipping or billing information.

SHIPPING ADDRESS

3615 Harding Ave., Suite 308

Honolulu Hawaii 96816-3759
United States

Contact: Anne Antin

Email: aantin@analyzehawaii.com
Phone: 808-735-0422

BILLING ADDRESS

3615 Harding Ave., Suite 308

Honolulu Hawaii 96816-3759
United States

Contact:

Email: aantin@analyzehawaii.com
Phone: 808-735-0422

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



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology

April 22, 2019

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

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Dear Anne Antin:

Congratulations! Your laboratory has passed the November 1, 2018 proficiency test round, M22018, required by the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis.

If your laboratory is accredited your status remains unchanged. If your laboratory is not yet accredited, or if the accreditation has been suspended, you will be notified of any requirements needed to complete the accreditation/reaccreditation process.

Please upload your results to the NVLAP portal, under the Lab Documents tab, Proficiency Testing Report.

If you have any questions, please contact me at (301) 975-3024; by email at hazel.richmond@nist.gov, or Derek Ho at (301) 975-4023; by email at derek.ho@nist.gov.

Sincerely,

Hazel M. Richmond, Program Manager
Laboratory Accreditation Program

