

**NIST Bulk Asbestos Proficiency Test
November 2002, Round M12002**

NVLAP Lab Code 101953-0

PROFICIENCY TEST M12002 SUBTOTALS

Sample #1	75
Sample #2	0
Sample #3	0
Sample #4	40

TOTAL POINTS 115

Failure = 150 or more total points

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**SAMPLE #1
Asbestos Type 1**

Criteria	Reported by Laboratory	Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type)	AMOS	Amos	Amos	0
Reporting Additional Asbestos Type (150 pts. if >0.1%, 75 pts. if 0.1%)	NONE	None	None	0
% Asbestos (50 pts.)	2.0	1%	0.1 to 7%	0
Color (10 pts.)	CL	CL (colorless)	CL (colorless)	0
Pleochroism (10 pts.)	N	None	None	0
Extinction (10 pts.)	P	P (parallel)	P (parallel)	0
Sign of Elongation (10 pts.)	P	P (positive)	P (positive)	0
Average Refractive Index (40 pts. each index, 10 pts if $\gamma=\alpha$ or γ & α reversed)	1.705 1.672	$\gamma = 1.700$ $\alpha = 1.679$	$\gamma = 1.691-1.709$ $\alpha = 1.670-1.688$	0
Birefringence (10 pts.)	M	M (medium)	M (medium)	0

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**SAMPLE #1
Asbestos Type 2**

Criteria	Reported by Laboratory	Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type)	NONE	Chrysotile	Chrysotile	75
Reporting Additional Asbestos Type (150 pts. if >0.1%, 75 pts. if 0.1%)	NONE	None	None	0
% Asbestos (50 pts.)		1%	0.1 to 5%	0
Color (10 pts.)		CL (colorless)	Not Evaluated	0
Pleochroism (10 pts.)		None		0
Extinction (10 pts.)		P (parallel)		0
Sign of Elongation (10 pts.)		P (positive)		0
Average Refractive Index (40 pts. each index, 10 pts if $\gamma=\alpha$ or γ & α reversed)		$\gamma=1.559$ $\alpha=1.548$		0
Birefringence (10 pts.)		L (low) to M (medium)		0

Total Points Assigned for Sample #1 (Asbestos Types 1 & 2) = 75

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SAMPLE #2

Criteria	Reported by Laboratory	Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type)	AMOS	Amosite	Amosite	0
Reporting Additional Asbestos Type (150 pts. if >0.1%, 75 pts. if 0.1%)	NONE	None	None	0
% Asbestos (50 pts.)	5.0	7%	2-25%	0
Color (10 pts.)	CL	CL (colorless)	CL (colorless)	0
Pleochroism (10 pts.)	N	None	None	0
Extinction (10 pts.)	P	P (parallel)	P (parallel)	0
Sign of Elongation (10 pts.)	P	P (positive)	P (positive)	0
Average Refractive Index (40 pts. each index, 10 pts if $\gamma=\alpha$ or γ & α reversed)	1.696 1.676	$\gamma=1.701$ $\alpha=1.680$	$\gamma=1.692-1.710$ $\alpha=1.671-1.689$	0
Birefringence (10 pts.)	M	M (medium)	M (medium)	0

Total Points Assigned for Sample #2 = 0

**NIST Bulk Asbestos Proficiency Test
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Criteria	Reported by Laboratory	Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type)	NONE	None	None	0

Total Points Assigned for Sample #3 = 0

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SAMPLE #4

Criteria	Reported by Laboratory	Reference Values	Acceptable Answers	Assigned Points
Asbestos Type (150 pts./type)	CHRY	Chrysotile	Chrysotile	0
Reporting Additional Asbestos Type (150 pts. if >2%)	ACTN	None or Actinolite	None or 0-2% Actinolite	0
% Asbestos (50 pts.)	10.0	8%	1 - 15%	0
Color (10 pts.)	CL	CL (colorless)	CL (colorless)	0
Pleochroism (10 pts.)	N	None	None	0
Extinction (10 pts.)	P	P (parallel)	P (parallel)	0
Sign of Elongation (10 pts.)	P	P (positive)	P (positive)	0
Average Refractive Index (40 pts. each index, 10 pts if $\gamma=\alpha$ or γ & α reversed)	1.552 1.548	$\gamma=1.560$ $\alpha=1.548$	$\gamma=1.553-1.567$ $\alpha=1.541-1.555$	40
Birefringence (10 pts.)	L	L (low) to M (medium)	L (low) to M (medium)	0

Total Points Assigned for Sample #4 = 40