



AIHA Proficiency Analytical Testing Programs, LLC

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7/15/2010

Santiago Martinez
Environ Cientifica Ltda.
R. Silva Jardim, nº 251 - Centro

São Bernardo do Campo, S.P. CEP 09715 090 BRAZIL

Lab ID# 102800

Dear Santiago Martinez,

Please find your laboratory's Industrial Hygiene Proficiency Analytical Testing (IHPAT) results for **Round 181 Retest**. It is the Laboratory's responsibility to thoroughly review results and to immediately contact the AIHA Proficiency Analytical Testing Programs, LLC in writing, if any errors are found in your report.

The proficiency demonstrated by the results of this IHPAT round is valid until the close of the next IHPAT round on August 16, 2010. IHPAT **Round 182** sample kits were mailed to laboratories around July 1, 2010. Your laboratory's data will be due by 11:59pm EST on August 2, 2010.

Please handle, store and analyze your laboratory's PAT samples in the same manner as routine client samples. To submit results, visit the Proficiency Analytical Testing (PAT) page and click on the PAT Data Entry Portal: www.aihapat.org. **Always print and save the confirmation page** after submitting data via the PAT Data Entry Portal.

Your laboratory's password, needed to access the reports through the PAT Data Entry Portal is provided in the upper right hand corner (next to your lab ID#) of the address label on the results worksheet included with your PAT samples.

Any enrolled laboratory, that is unable to participate in a PT round, must request an "Excused Absence" in order to not receive outliers and an unacceptable performance rating. This written request must be received by the before the PT round closes. Please note that an "Excused Absence" will not be granted for more than two consecutive rounds.

I encourage you to contact me with any feedback, questions or if you wish to contest your results at nmugambwa@aiha.org.

Sincerely,

A handwritten signature in black ink that reads 'Nmugambwa'. The signature is written in a cursive, flowing style.

Natasha Mugambwa, MS
Manager, AIHA PAT Programs, LLC

Industrial Hygiene Proficiency Analytical Testing Results

This document contains two sub-reports relating to IHPAT Round 181. The first report contains your laboratory's results listed per contaminant, per sample. The second report contains your current and 2 previous test round performance respectively (where applicable) for IHPAT round 181 retest.

Testing Results for IHPAT Round 181 Retest

This part of the report contains your laboratory's results listed per contaminant, per sample.

Contaminant	Units	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Cadmium (CAD)	mg	1	0.00610	0.00581	0.00492	0.00670	1.0	A
	mg	2	0.01360	0.01297	0.01111	0.01483	1.0	A
	mg	3	0.00210	0.00197	0.00165	0.00229	1.2	A
	mg	4	0.00820	0.00746	0.00634	0.00859	2.0	A
Lead (LEA)	mg	1	0.0422	0.0396	0.0343	0.0449	1.5	A
	mg	2	0.1307	0.1171	0.1031	0.1312	2.9	A
	mg	3	0.1116	0.1023	0.0879	0.1166	2.0	A
	mg	4	0.0660	0.0604	0.0532	0.0677	2.3	A
Zinc (ZIN)	mg	1	0.1930	0.1797	0.1581	0.2012	1.9	A
	mg	2	0.1534	0.1402	0.1234	0.1570	2.4	A
	mg	3	0.0775	0.0757	0.0646	0.0868	0.5	A
	mg	4	0.0500	0.0506	0.0419	0.0594	-0.2	A
Silica (SIL)	mg	1	0.1080	0.0953	0.0538	0.1369	0.9	A
	mg	2	0.0667	0.0621	0.0317	0.0926	0.4	A
	mg	3	0.1253	0.1147	0.0687	0.1606	0.7	A
	mg	4	0.1773	0.1563	0.0869	0.2256	0.9	A
Methanol (MOH)	mg	1	0.2476	0.2483	0.1698	0.3268	0.0	A
	mg	2	0.8095	0.7841	0.5594	1.0087	0.3	A
	mg	3	0.3482	0.3467	0.2484	0.4450	0.0	A
	mg	4	0.1192	0.1154	0.0770	0.1538	0.3	A

Please note:

Reference value is the mean of the reference laboratories

*Lower limit = reference value - 3 standard deviations and Upper limit = reference value +3 standard deviations

*Z-score = (reported result - reference value)/standard deviation

*Asbestos is the exception because data are positively skewed therefore transformations are used to obtain approximately normal distributions.

A: Acceptable Analysis; U: Unacceptable Analysis

The acceptability of reported results is based on upper and lower performance limits. This is why a reported result may appear unacceptable according to z-score, but be identified as acceptable.

Overall Performance Summary Concluding with 181 Retest

The following table contains your laboratory's current and 2 previous test rounds performance respectively (where applicable). For more information regarding the determination of proficiency, please see http://www.aiha.org/llc_pat/programs_ihpat.htm

Sample	Round	Round Performance	Round Score	Proficiency Status -Three Round Score
Metals	179	12/12	Pass	
	180	12/12	Pass	
	181	12/12	Pass	P
Organic Solvents	179	12/12	Pass	
	180	12/12	Pass	
	181	2/4	Fail	
	181(Retest)	4/4	Pass	P
Silica	179	4/4	Pass	
	180	4/4	Pass	
	181	4/4	Pass	P

Please note:

The denominators represent the total number of samples analyzed.

The numerators represent the number of acceptable results.

Pass: Round Score \geq 75% Fail: Round Score $<$ 75%

P – Proficient; NP – Non-proficient; I – Indeterminate.

A laboratory is rated proficient (P) for the associated FoT/Method(s), if the laboratory has a passing score for the applicable PT analyte class in two (2) of the last three (3) consecutive PT rounds. A laboratory is rated non-proficient (NP) for the applicable FoT/Method if the laboratory has failing scores for the associated PT analyte class in two (2) of the last three (3) consecutive PT rounds.

If a laboratory receives samples and does not report the data, the results will be treated as outliers.