

Report Issue Date: 1/16/2018

Steve Green
AT Labs, A Unit Of Assay Technology
1382 Stealth St
Livermore, CA 94551

Participant ID# 101728

Dear Steve Green,

Please find your organization's Industrial Hygiene Proficiency Analytical Testing results for **IHPAT Round 211 Retest**. It is the participant's responsibility to thoroughly review results and to immediately contact the AIHA Proficiency Analytical Testing Programs in writing, if any errors are found in your report.

The proficiency demonstrated by the results of this IHPAT round is valid until the results of the next IHPAT round are available on February 15, 2018. **IHPAT Round 212** sample kits were mailed to participants around January 1, 2018. Your organization's data will be due by 11:59pm EST on February 1, 2018. Please note that the PT Program Schedule is available at www.aihapat.org.

Please handle, store and analyze your 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.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report. Round results are only released to the participant and those entities requiring this information for accreditation and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of participant records. PAT reports may not be reproduced or distributed unless copied in its entirety.

Samples are generated, characterized, packaged, and shipped by SRI International, Menlo Park, CA 94025 under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

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

Sincerely,



Angela Oler, ASQ CQA
Director of Operations, AIHA PAT Programs, LLC

Industrial Hygiene Proficiency Analytical Testing Results

This document contains two sub-reports relating to IHPAT Round 211 - Retest. 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 211 - Retest.

Testing Results for IHPAT Round 211 - 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
n-Butyl Acetate (BAC)	mg	1	0.3240	0.3268	0.2713	0.3822	-0.2	A
	mg	2	0.9680	0.9266	0.8005	1.0526	1.0	A
	mg	3	0.6840	0.6616	0.5564	0.7669	0.6	A
	mg	4	0.0741	0.0845	0.0640	0.1051	-1.5	A
2-Propanol (IPA)	mg	1	0.5170	0.4529	0.3033	0.6026	1.3	A
	mg	2	0.8530	0.7510	0.5243	0.9777	1.3	A
	mg	3	0.1710	0.1492	0.0922	0.2062	1.1	A
	mg	4	0.2900	0.2631	0.1762	0.3500	0.9	A
Ethyl Acetate (EAC)	mg	1	0.1810	0.1717	0.1437	0.1997	1.0	A
	mg	2	0.0737	0.0708	0.0550	0.0865	0.6	A
	mg	3	0.9020	0.8620	0.7510	0.9731	1.1	A
	mg	4	0.4660	0.4400	0.3751	0.5049	1.2	A

Statistical Analysis Interpretation Note:

Reference value is the mean of the reference group.

Lower limit = reference value - 3 standard deviations; Upper limit = reference value + 3 standard deviations

z-Score = (reported result - reference value)/standard deviation. Note: z-Scores are used to predict trends and to indicate how far a particular score is away from the mean.

A – Acceptable* Analysis; U - Unacceptable Analysis

Fiber data are positively skewed therefore transformations are used to obtain approximately normal distributions.

Both the assigned values and acceptance limits are based on consensus of the reference group. *The acceptability of reported results is based on upper and lower acceptance limits. This is why a reported result may appear unacceptable according to z-Score, but be identified as acceptable.

Any non-participation or non-reporting of PAT data will result in unacceptable results (see PAT Programs Participation Policies, Section 2.1.6.2.).

Overall Performance Summary Concluding with 211 - 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 www.aihapat.org.

Sample	Round	Round Score	Round Performance	Proficiency Status - Three Round Score
Organic Solvents	209	4/4	Pass	
	210	12/12	Pass	
	211	6/12	Fail	
	211-Retest	12/12	Pass	P

Interpretation 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 (not enough rounds to determine proficiency)

A participant is rated proficient for the applicable IHPAT analyte group if the participant has a passing score for the applicable IHPAT analyte group in two (2) of the last three (3) consecutive PT rounds. A participant is rated non-proficient for the applicable PT analyte group if the participant has failing scores for the associated PT analyte group in two (2) of the last three (3) consecutive PT rounds.

The following items are available in the [Industrial Hygiene Scheme Plan](#):

Procedures used to statistically analyze the data, establish any assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of any assigned value; information about design and implementation of PT scheme. Industrial Hygiene Scheme Plan is available at <http://www.aihapat.org/Programs/IHPAT/Documents/IHPAT%20Scheme%20Plan%20R2.pdf>
Measurement uncertainty of any assigned value is also available on the respective certificate of analysis for the round.

Technical Comment: No remarkable observations.