

Beryllium Round 47  
 Proficiency Testing Performance for Participant ID: PAT-100324  
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This report contains your organization's Beryllium Proficiency Analytical Testing results for **BePAT Round 47**. It is the participant's responsibility to thoroughly review the information in this final report and to immediately contact the AIHA Proficiency Analytical Testing Programs, in writing, if any errors are found.

### Beryllium Results

The final report is comprised of two sections relating to BePAT Round 47. The first section contains your organization's results listed per analyte, per sample. The second section contains your current performance and performance from the two previous rounds, respectively (where applicable). Summary results for all participants for BePAT Round 47 are located in a separate report.

### Testing Results for BePAT Round 47

This part of the report contains your organization's results listed per analyte, per sample.

#	Result (µg)	Certified Value (µg)	Recovery (%)	Lower Limit	Upper Limit	z-Score	Rating
1	15.9006	18.1	87.8	13.6	22.6	-1.5	A
2	13.7549	14.6	94.2	11	18.3	-1.1	A
3	0.9044	0.955	94.7	0.716	1.19	-1.1	A
4	0.2903	0.332	87.4	0.249	0.415	-1.5	A

### Statistical Analysis Interpretation Note:

A - Acceptable Analysis (between 75%-125% of certified value); U - Unacceptable Analysis

Both the assigned value and acceptance limits are based the certified reference value. The acceptability of reported results is based on upper and lower acceptance limits. A reported result may appear acceptable/unacceptable according to z-Score, but be identified as an outlier based upon the acceptance limits.

$z\text{-Score} = (\text{reported result} - \text{certified reference value}) / \text{standard deviation}$ . Note: z-Scores indicate how far a particular score is away from the mean. Any non-participation or non-reporting of PAT data will result in unacceptable results (see PAT Programs Participation Policies, Section 2.1.6.2.).

**Technical Comment:** No remarkable observations.

### Overall Performance Summary Concluding with BePAT Round 47

The following table contains your organization's current and two previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please visit: [www.aihapat.org](http://www.aihapat.org).

Sample	Round	Round Score	Round Performance	Proficiency Status - Three Round Score
BERYLLIUM	45	4/4	PASS	
	46-R	4/4	PASS	
	47	4/4	PASS	PROFICIENT

### Interpretation Notes:

Pass: Round Score greater than or equal to 75%; Fail: Round Score less than 75%; Indeterminate = not enough rounds to determine proficiency

A participant is rated proficient for BePAT if the participant has a passing score for the applicable 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.

Additional information on the following items are available in the Beryllium Scheme Plan:

Procedures used to statistically analyze the data, establish the assigned value and standard deviation for proficiency assessment, or other criteria for evaluation; details of the metrological traceability and measurement uncertainty of the assigned value; information about design and implementation of PT scheme. The Beryllium Scheme Plan is available in the PAT Portal. Measurement uncertainty of any assigned value is also available on the respective summary report for the round.

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. AIHA PAT Programs makes every effort to ensure that individual participant results are kept confidential and are not made public. Round results are only released to the participant and those entities requiring this information for accreditation, regulatory and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

BePAT samples are generated, verified, packaged, and shipped by RTI International under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

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