



Low Asbestos Content Scheme Individual Results: Round 005 LACS R5

For Laboratory Number: 1640 CRB Analyse Service GmbH

From: 03/09/2018 To: 12/10/2018

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Sample	Your Result	Assigned Result	Score
1	Amosite,	Amosite,	0
1	Amosice,	Amosice,	
	Total Asbestos = 0.027%	Total Asbestos = 0.09%	Z:-2.1

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#### Round 5 Sample Details

#### **BACKGROUND**

This report covers Round 5 of the Low Asbestos Content Scheme (LACS). Round 5 was open to laboratories worldwide. Laboratory participation was as follows: 4 UK, 105 Rest of Europe and 1 RoW.

110 laboratories subscribed to this round, with 107 submitting results.

#### **SAMPLES**

One sample was circulated as follows: Sample LACS005B – This sample was plaster containing 0.09% UICC amosite.

#### **SCREENING & VALIDATOR INFORMATION**

The sample was prepared for circulation following our normal internal screening process of samples with representative subsamples scanned using stereo-zoom and polarised light microscopy to assess homogeneity and suitability. Approximately 10% of the total number of samples despatched were validated by 4 independent laboratories.

#### INFORMATION SUBMITTED BY LABORATORIES

Laboratories used the HSL web-based PT data entry system to submit their results for this round. Results were submitted as asbestos type(s) present and for the Quantitative element, the total % asbestos.

## **ERRORS**

One laboratory of the 107 who submitted results failed to report amosite and recorded a false positive error of anthophyllite for sample LACS005B.

# LACS QUALITATIVE RESULTS

#### Sample LACS005B

One hundred and six laboratories correctly reported amosite.

One laboratory reported anthophyllite and failed to report amosite.

Three laboratories did not submit a result.

These results are presented graphically in Charts 1 and 2.

#### LACS QUANTITATIVE RESULTS

The median of quantitative results submitted was 0.07%. For the purposes of the z score we are using 40% of the median - 0.03%. Forty-five laboratories submitted quantitative results;

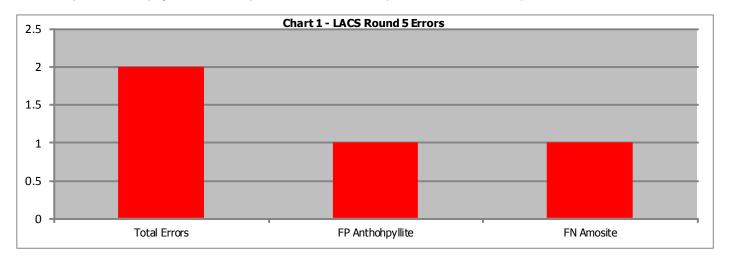
- 31 (69%) laboratories achieved a z-score of < ± 2, this is normally considered to represent "Satisfactory" performance
- 6 (13%) laboratory achieved a z-score of between ± 2 ± 3, this is normally considered to represent "Questionable" performance
- 8 (18%) laboratories achieved a z-score of  $> \pm 3$ , this is normally considered to represent "Unsatisfactory" performance. These results are presented graphically in Charts 3-5.





#### 1. Type Of Errors Obtained

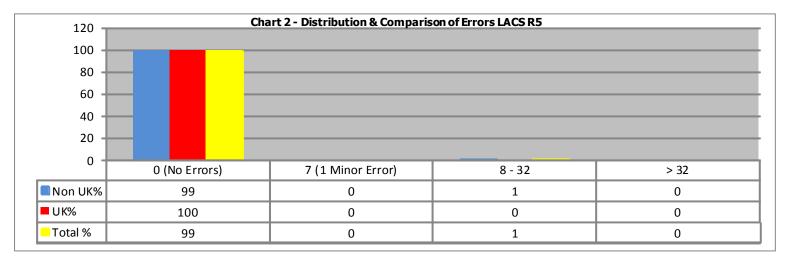
Chart 1 illustrates the errors made by participating laboratories. Two errors were made by a laboratory on sample LACS005B. The lab reported anthophyllite asbestos present and failed to report amosite asbestos present.



False Negative = Component has been missed. False Positive = Component has been incorrectly identified as present.

## 2. Errors for UK & Non-UK Laboratories

Chart 2 illustrates the distribution of scores for all participating laboratories. 106 (99%) laboratories obtained a score of zero in this round, indicating that these laboratories had not made any errors. The distribution of scores obtained by UK (United Kingdom) and Non-UK laboratories is also compared; 4 (100%) UK laboratories and 102 (99%) Non-UK laboratories obtained a score of zero for the round.

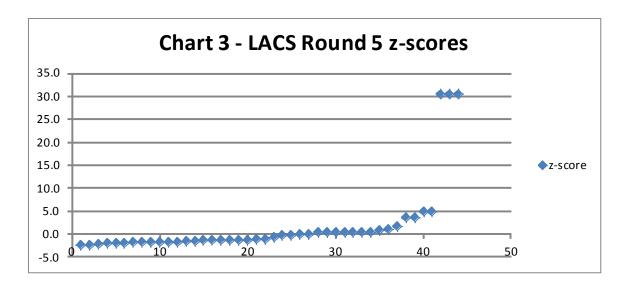




## 3. Quantitative Results - z scores

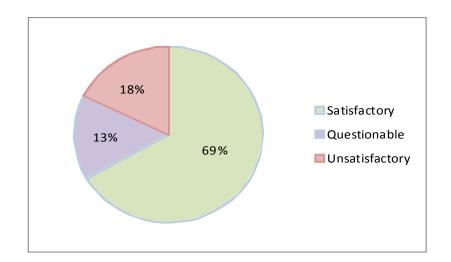
## Chart 3

Scatter graph of z scores (one z score of 63.7 removed as outlier) for the 45 laboratories who submitted a quantification result.



# 4. Quantitative Results

Chart 4 illustrates of the 45 laboratories who submitted a quantification result, 31 laboratories (69%) achieved a satisfactory result i.e. a z score of < ± 2. 6 laboratories (13%) achieved a questionable result with a z score of between ± 2 and ± 3. 8 laboratories (18%) achieved an unsatisfactory result with a z score of  $> \pm 3$ .





# 5 Quantitative Results by analytical method

The following charts illustrate the z-score results by method of the 45 laboratories who submitted a quantification result. The number of labs using each method were as follows: 22 labs used SEM/EXD; 21 labs used TEM/EDX/ED and 2 labs used PLM/PCM.

