

LABQUALITY

External Quality Assessment Scheme

Erythrocyte Folate 1, 2018

Welcome to the Erythrocyte Folate Round.

Samples

Sample **S001: LQ750718011** is fresh human whole blood (1.0 mL).

Warning

Quality control specimens derived from human blood must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases. The specimen is found to be HBs-Ag and HIV-Ab negative when tested with licensed reagents, but no known test method can offer complete assurance that the specimen will not transmit these or other infectious diseases.

Use and Storage

Please analyse the sample as soon as possible.

Use and store as patient samples.

Methods and results

Please use the Haematocrit value 42.0% when calculating the erythrocyte folate concentration.

Please fill in the results using the LabScala result form. Please ask separate instructions for LabScala if needed.

If you use paper form we recommend to return the result form as an attachment of the email (info@Labquality.fi). Also ordinary mail or fax can be used.

Please circle your method code on the method list and fill in your results on the result form. If your method is not mentioned on the method list, please send us a kit insert or corresponding information. Results without method specification will be processed in the method group "Others."

Barcode for specimen



Instructions

Product no: 2370
LQ750718011/FI

Please find enclosed a sample and a result form.

If the kit is incomplete or contains a damaged specimen, please report immediately to the EQA coordinator.

Results should be at Labquality latest on May 17, 2018.

Enquiries
EQA coordinator
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Sample S001 | Erythrocyte Folate, nmol/l

Methodics	<i>x_{pt}</i>	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect	405	413	30	7.5	18	372	431	-	3
Roche cobas e analysers	1645	1708	206	12.5	73	1174	1828	-	8
Siemens Advia Centaur	633	678	220	34.7	110	334	841	-	4
All	1127	1174	605	53.7	156	334	1828	-	15

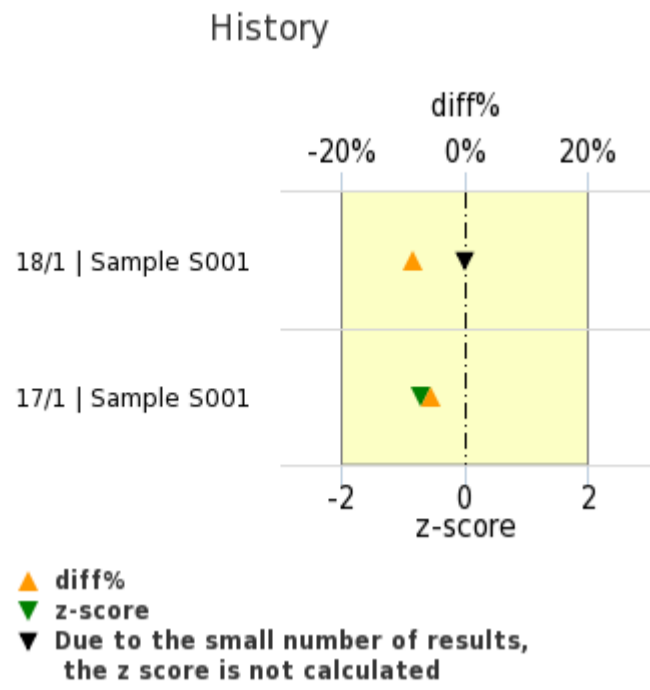
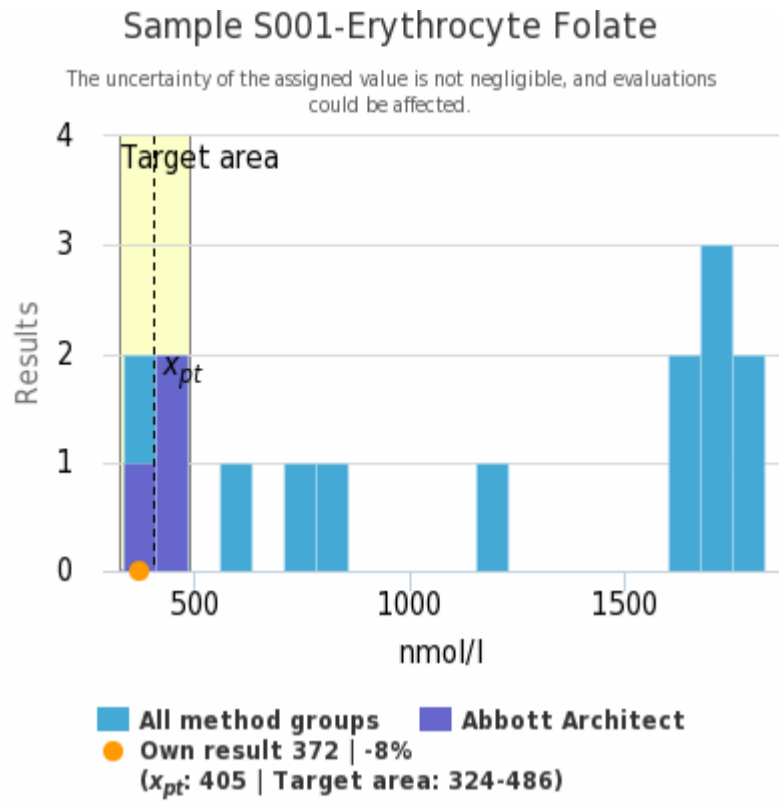
Sample S001 | Erythrocyte Folate, nmol/l| histogram summaries in LabScala

Sample S001 | Blood Folate, nmol/l

Methodics	<i>x_{pt}</i>	Median	sd	CV%	SEM	min	max	Outliers	n
Abbott Architect	177	177	5	3.0	4	174	181	-	2
Roche cobas e analysers	717	718	41	5.7	24	676	757	-	3
Siemens Advia Centaur	266	285	92	34.6	46	140	353	-	4
All	396	311	250	63.1	83	140	757	-	9

Sample S001 | Blood Folate, nmol/l| histogram summaries in LabScala

Erythrocyte Folate |Architect ci8200



	x _{pt}	sd	SEM	CV%	n
Abbott Architect	405 nmol/l	30	18	7.5	3
All methods	1127 nmol/l	605	156	53.7	15

Round	Sample	x _{pt}	Result	diff%	z-score
18/1	Sample S001	405	372	-8%	-
17/1	Sample S001	609	576	-5%	-0.71

External Quality Assessment Scheme

Evaluation Report

Items sent 2018-04-23
Round closed 2018-05-17
Report released 2018-07-09

Erythrocyte Folate 1, 2018

Product no: 2370
LQ750718011/FI

Thank you for participating in the round as one of the 15 laboratories.
Please find enclosed the results.

The report contains

Report letter
Numerical summary
Individual histograms (if results have been returned)

Material

Specimen was whole blood anticoagulated with CPDA (citrate phosphate dextrose adenine).

Inquiries about this round, including questions of possible errors in result processing, should be at Labquality's office within a month from the date of this letter.

Assigned value

The assigned value (mean) and other statistical parameters are calculated from the results that fall within the calculated limits for the group in question. The limits are obtained from the median value of the uncorrected results ± 3 * uncorrected SD if the group includes at least seven results.

The histogram printout compares your own result directly with your own method group, not with the mean value of all the results.

Inquiries

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From the beginning of 2018 we have made some changes in the statistical calculations and reporting related to small method groups.

Guidelines how to interpret the reports can be found under "LabScala user instructions" in LabScala.

Scheme expert

AnnukkaPaju
Clinical biochemist
HUSLAB, Helsinki

Results and comments 2018

The haematocrit value 42% was given to be used in the erythrocyte folate result calculation.

The next round will be organised in October 2018.

In the present Erythrocyte Folate survey there were three method groups participating. Of these, Abbott Architect represented again the lowest (mean 405 nmol/L) and Roche Cobas e analysers the highest result level (mean 1645 nmol/L). Results reported from the method group Siemens Advia Centaur were situated in the middle (Mean 633 nmol/L).

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End of the report.

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