LABQUALITY

External Quality Assessment Scheme

Borrelia burgdorferi antibodies 1, 2018

There were 59 participants from sixteen countries.

Specimens
The round included two human based specimens, which were distributed to participants by mail without any temperature control. The laboratories were requested to analyse the specimens as soon as possible (within a week) and store them in a refrigerator.

Specimen S001: LQ757318011:

S-BorrAb	Positive
S-BorrAbG	Positive
S-BorrAbM	Positive

Specimen S002: LQ757318012

S-BorrAb	Positive
S-BorrAbG	Positive
S-BorrAbM	Negative

Results
In LabScala reports results are marked with green color and laboratory's own result with a black radio button. Change in the report layout: Please note that by default the distribution pies are closed in the scoring reports. You are able to open the distribution pies by clicking the screen button at the right end of the RESULT DISTRIBUTION row. In the scoring section you can see summaries of overall success rate and sample specific success rates (%). Sample specific interpretations are shown in pie diagrams as percentages and the total interpretation and methodics counts in the tables. The cumulative scoring data is calculated according to the order of the results. Therefore we recommend you to locate the results of your primary method to the top of the result form.

If you have no results you will get a note that you have not responded on time.

The participants of this EQA scheme are able to report three (3) results for each specimen in LabScala, when the material is sufficient for additional analysis. This opportunity is intended for different test kits or instruments of one testing unit.

Comments
In the first round of the year, both samples were borrelia antibody positive.

Sample S001 contained both IgG and IgM class borrelia antibodies. IgG antibodies recognized at least VlsE, OspC and p58 antigens. IgM antibodies were directed mainly to OspC antigen.
The clinical interpretation of the sample should be "Sign of past or on-going infection" or "Positive, referred for confirmation".

Sample S002 was also positive in IgG borrelia antibodies. The IgG antibodies were specific, among others, for p100, VlsE, p58, p39, and p18 antigens. A clear consensus was achieved also in IgM borrelia antibodies, and the majority of participating laboratories reported negative IgM results. Based on the positive IgG result, the correct clinical interpretation of this sample was "Sign of past or on-going infection" or "Positive referred for confirmation".

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2018-03-09

FINAL REPORT

Items sent 2018-11-13
Round closed 2018-12-07
Results released 2018-03-06
Report released 2018-03-09

Product no. 5960
LQ757318011-012/UK

The report contains
-Laboratory specific results and scoring tables

Request for corrections
Typing errors in laboratory's result forms are on laboratory's responsibility. Labquality accepts responsibility only for result processing.

Requests must be notified by writing within three weeks from the date of this letter.

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Scores
The round is scored based on test results and clinical interpretations. Test result/clinical interpretation of specimen will be scored if 60% of the test results/clinical interpretations in question are correct/expected. Following general rules are followed:

- Correct negative or positive test result	2/2 points.
- Partly correct test result	1/2 points.
- False negative or positive test result	0/2 points.
- Correct clinical interpretation	4/4 points.
- False clinical interpretation	0/4 points.

Laboratory's scores have been converted to percentage (own success rate, % from maximum scores) with a target at 100%. Own success rate is compared with the success rate of all results.

The reports of this round are available on **Labquality homepage** (www.labquality.fi). Please **Login to LabScala** and fill in your laboratory's **client code/personal user name** and **password**. Then please choose **My documents → View Reports.**

End of report