

Gram stain, blood culture 2, 2018

Please find enclosed the results of the round. The specimens were sent to 104 laboratories (altogether from 12 countries). Altogether 98% (102/104) of the participants reported their results before closing date.

The specimens: Two specimens were taken from blood culture bottles (without carbon) and air-dried on slides.

Specimen S001 (without carbon) (S001: LQ760618021)

Bacteroides fragilis

a gram negative rod

Background information: A 24-year-old woman. Fever. Appendicitis?

Specimen S002 (without carbon) (S002: LQ760618022)

Haemophilus influenzae

a gram negative rod

Background information: A 3-year-old boy. Epiglottitis? An unvaccinated child.

The results are shown in the laboratory-specific table. The acceptable results are indicated in the table by arrows. The grey areas show the result of your laboratory. Please check that the customer number on the printout showing your results is correct (in top right-hand corner). Guidelines how to interpret the reports can be found under "LabScala user instructions".

Comments

Specimen S001 (without carbon): ***Bacteroides fragilis***

Bacteroides fragilis is a gram negative rod. The cells are thin with varying length. The cells are pleomorphic and irregular. All except two of the participated laboratories reported the findings correctly as gram negative rod.

Specimen S002 (without carbon): ***Haemophilus influenzae***

Haemophilus influenzae is a gram negative rod. The cells are thin ($\leq 0.5 \mu\text{m}$ in diameter). Length of the cells is typically variable ($0.5 - 3 \mu\text{m}$). 82% of the participating laboratories reported gram staining correctly as gram negative and 73% of the participating laboratories reported the shape of the cells correctly as rod. About half of the laboratories commented small size of the cells. Some laboratories reported also gram positive coccus. Most likely this seems to be artefact due to staining of the sample instead of a correct finding.

2018-06-26

FINAL REPORT

Product no. 5041

LQ760618021-022/FI

Subcontracting: Sample preparation,
sample pretesting

Items sent 2018-04-24

Round closed 2018-05-17

Expected results 2018-05-22

Report released 2018-06-26

The report contains

- Expected results of the specimens
- Expert's comments
- Individual result tables
- Laboratory specific scores
- Colour printout

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.

Expert

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Labquality


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PT02 (EN ISO/IEC 17043)



Scoring

Scoring is implemented for each specimen when 60% or more of the laboratories report a correct/expected result. The following general rules are followed:

Specimen S001:

Bacteroides fragilis

Expected result: A gram negative rod

Gram negative	2 p.
Gram positive	0 p.
Rod (Bacilli)	2 p.
Coccus	0 p.
Yeast	0 p.
No microbes	0 p.

Specimen S002:

Haemophilus influenzae

Expected result: A gram negative rod

Gram negative	2 p.
Gram positive	0 p.
Rod (Bacilli)	2 p.
Coccus	0 p.
Yeast	0 p.
No microbes	0 p.

Total scores for the round are:

Gram staining 2+2 = 4 points

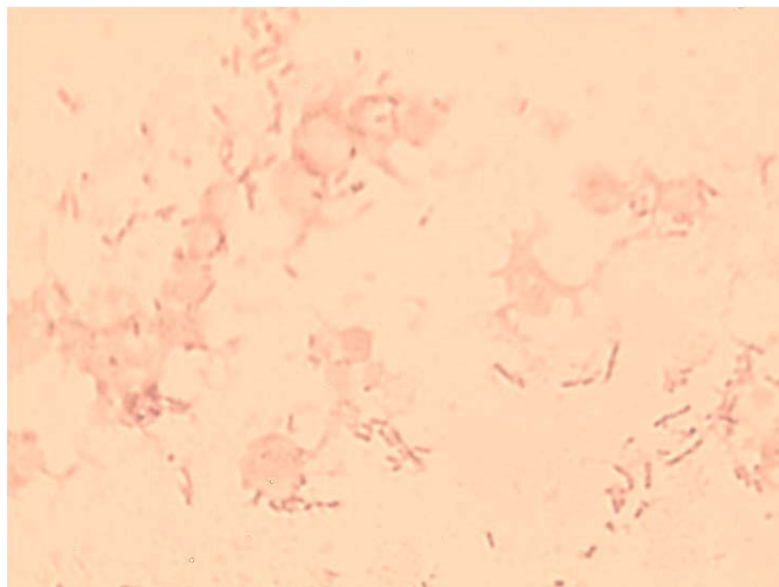
Shape of the cells 2+2 = 4 points

For laboratories ordering paper printouts; The laboratory-specific summary tables and report letter of this scheme are also available on Labquality homepage (www.labquality.fi). Please login to LabScala and fill in your laboratory's client code/personal user name and password. You are able to access your reports via LabScala by selecting "View reports" from the front page. Search for the specific scheme by name or code or press "Choose" to see all.

End of report

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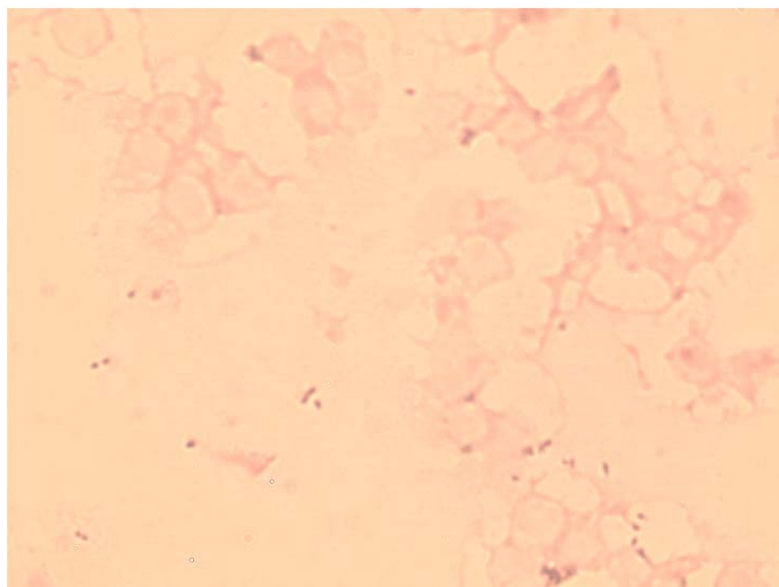
S001

***Bacteroides fragilis*,**
a gram negative rod.

Characteristics:
a thin rod with variable
length.

***Bacteroides fragilis*,**
gramnegatiivinen sauva.

Tunnusomaista:
ohut, vaihtelevan
pituinen sauva.



S002

***Haemophilus influenzae*,**
a gram negative rod.

Characteristics:
a small rod with variable
length.

***Haemophilus influenzae*,**
gramnegatiivinen sauva.

Tunnusomaista:
pieni vaihtelevan
pituinen sauva.

Pictures taken with 100 x lens
Kuvattu 100 x objektiivilla