LABQUALITY

External Quality Assessment Scheme

Faecal parasites multiplex, nucleic acid detection Round 1, 2023

Specimens

Please find enclosed 3 lyophilized samples S001, S002 and S003 and vials of rehydration fluid, each 1.5 mL.

Caution

Handle the samples with the same care as corresponding clinical specimens capable of transmitting infectious disease.

Examinations

Giardia lamblia, NAT Cryptosporidium, NAT Entamoeba histolytica, NAT Dientamoeba fragilis, NAT

Note! Discontinued analyte: Entamoeba dispar, NAT

Storage and use

After arrival, the samples should be stored at +2...8 °C.

- 1. Open the foil pouch and add <u>500 µL</u> hydration fluid into the sample tube/vial and vortex briefly.
- 2. Invert the vial 4-6 times and vortex again briefly. Check that the sample pellet is completely dissolved. If necessary, repeat step 2.
- 3. Centrifuge the vial briefly to collect the rehydrated target material at the bottom of the tube.
- 4. Prepare and test the samples similar to patient specimens. Please note that DNA extraction is needed. Use the same dilution ratio as instructed in your test kit's instructions. The specimens are to be diluted in the sample diluent supplied by your test kit.
- 5. Tests should preferably be carried out immediately after hydration and latest within 4 hours.

Result reporting

Please enter the results and methods via LabScala (www.labscala.com).

Report the measurement date, test selection (tick the box) and method in the "Test selection" tab on the Pre-analytics page. If a listed pathogen is not included in your test selection, please choose "not in test selection" for the analyte in question. This information is transferred automatically to each sample and to the next round. You can change the information sample-wise or return to this page in order to change the information for all samples. If your test method is missing from the list, please contact the EQA Coordinator.

First, report the number of pathogenic findings that were identified from the sample. This question concerns only the pathogens that are included in the panel of this EQA round and are in your test selection. Next, report the pos/neg interpretation of each pathogen separately and the test result (e.g. Ct value). If you wish, you may copy e.g. interpretation "negative" to all analytes and then change the deviating results. Please note that results which are in the "draft" mode are not accepted in the result processing.

The participants are scored according to their test selection. In general, only the positive findings are scored for each sample. Interpretations "No test

2023-02-14

INSTRUCTIONS

Product no. 5472 LQ769823011-013/US

If the kit is incomplete or contains damaged specimens, please report immediately to info@labquality.fi.

The results should be reported no later than **March 9, 2023**.

The expected results of the round are published in LabScala in the View Reports section by March 14, 2023.

Inquiries

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result" and "Invalid/unclear test result" are excluded from scoring. It is expected that the pathogens indicated in the sample content are to be identified, whereas other deviating findings will reduce the overall success rate. For those samples that are negative regarding all pathogens included in the panel of this scheme, the scoring is based on the answer given to the question "number of pathogenic findings" and the expected result would be "Negative sample, no pathogens detected".

Faecal parasites multiplex, nucleic acid detection



<u>S002</u>



S003



XXXX

Client report

| | No of participants | No of responded participants | Response percentage |
|--|--------------------|------------------------------|---------------------|
| Faecal parasites multiplex, nucleic acid detection, February, 1-2023 | 68 | 62 | 91.2 % |

Summary



| Summary | Own score | Max score | Max score Own success rate | | AVR success rate |
|---------------|-----------|-----------|----------------------------|------------|------------------|
| Specimen S001 | 2 | 2 | 100 % | 5 % | 95 % |
| Specimen S002 | 2 | 2 | 100 % | 7.8 % | 92.2 % |
| Specimen S003 | 2 | 2 | 100 % | 3.1 % | 96.9 % |
| Average: | | | 100 % | 5.3 % | 94.7 % |
| | | | | | |
| History | Test nr. | Own s | success rate | Difference | AVR success rate |
| Round 2022-3 | 1-1 | | 100 % | 2.9 % | 97.1 % |
| Round 2022-2 | 1-1 | | 100 % | 3.7 % | 96.3 % |
| Round 2022-1 | 1-1 | | 100 % | 5.5 % | 94.5 % |
| Round 2021-3 | 1-1 | 100 % | | 1.3 % | 98.7 % |
| Round 2021-2 | 1-1 | 100 % | | 3.7 % | 96.3 % |
| Round 2021-1 | 1-1 | | 100 % 2 % | | 98 % |

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Specimen S001 | Entamoeba histolytica



📕 Sample AVR success rate 🛛 📃 Own success rate 🛛 💻 Target

| Specimen S001 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|-------------------------------|-----------|-----------|------------------|------------|------------------|
| | Number of pathogenic findings | - | - | - | - | - |
| | Giardia lamblia | - | - | - | - | - |
| | Cryptosporidium | - | - | - | - | 0 % |
| | Entamoeba histolytica | 2 | 2 | 100 % | 3.4 % | 96.6 % |
| | Dientamoeba fragilis | - | - | - | - | - |
| Total: | | 2 | 2 | 100 % | 5 % | 95 % |





Negative sample, no pathogens detected Positive sample, 1 pathogen detected

NUMBER OF PATHOGENIC FINDINGS

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|--|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative sample, no pathogens detected | 6 | - | | | | - |
| Positive sample, 1 pathogen detected | 58 | - | | | | - |
| Total: | 64 | _ | _ | _ | _ | |

GIARDIA LAMBLIA

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 63 | - | | | | - |
| Not in test selection | 1 | - | | | | - |
| Total: | 64 | - | - | - | - | |

| Method | Negative | Not in test selection | Total: |
|---|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | 1 |
| Amplicon AmpliTest Giardia intestinalis | 1 | _ | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | _ | 1 |
| BD MAX Enteric Parasite Panel | • 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | _ | 9 |
| In house | 1 | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | _ | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | _ | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |

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| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | 1 |
|---|----|---|----|
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | 5 |
| Total: | 63 | 1 | 64 |

CRYPTOSPORIDIUM

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 62 | - | | | | - |
| Positive | 1 | - | | | | 0 % |
| Not in test selection | 1 | - | | | | _ |
| Total: | 64 | _ | _ | - | _ | 0 % |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE Crypto-Micro Real-Time PCR Kit | 1 | - | - | 1 |
| Amplicon AmpliTest Cryptosporidium parvum | 1 | - | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | - | 1 |
| BD MAX Enteric Parasite Panel | • 7 | - | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | - | 9 |
| In house | 1 | - | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | - | 1 |
| Seegene Allplex GI-Parasite Assay | 25 | 1 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | - | 5 |
| Total: | 62 | 1 | 1 | 64 |

ENTAMOEBA HISTOLYTICA

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 2 | - | | | | 0 % |
| Positive | 57 | 2 | 2 | 100 % | 0 % | 100 % |
| Not in test selection | 5 | - | | | | - |
| Total: | 64 | 2 | 2 | 100 % | 3.4 % | 96.6 % |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | - | 1 | - | 1 |
| Amplicon AmpliTest Entamoeba histolytica | - | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | - | 1 |
| BD MAX Enteric Parasite Panel | - | • 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | - | 9 | - | 9 |
| In house | - | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | - | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | - | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | - | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | - | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | - | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 1 | 25 | - | 26 |
| Total: | 2 | 57 | 5 | 64 |

DIENTAMOEBA FRAGILIS

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 39 | - | | | | - |
| Not in test selection | 25 | - | | | | - |
| Total: | 64 | - | _ | - | _ | |

| Method | Negative | Not in test selection | Total: |
|--|----------|-----------------------|--------|
| Amplicon AmpliTest Digestive System Parasites II | 1 | - | 1 |
| BioGX Parasitic Enteric CGED - OSR | 2 | _ | 2 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 3 | - | 3 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | _ | 26 |

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| Total: | 39 | 25 | 64 |
|--------|----|----|----|
| | | | |

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Specimen S002 | Giardia lamblia



📒 Sample AVR success rate 🛛 📃 Own success rate 🛛 💻 Target

| Specimen S002 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|-------------------------------|-----------|-----------|------------------|------------|------------------|
| | Number of pathogenic findings | - | - | - | - | - |
| | Giardia lamblia | 2 | 2 | 100 % | 6.3 % | 93.7 % |
| | Cryptosporidium | - | - | - | - | - |
| | Entamoeba histolytica | - | - | - | - | 0 % |
| | Dientamoeba fragilis | - | - | - | - | - |
| Total: | | 2 | 2 | 100 % | 7.8 % | 92.2 % |





Negative sample, no pathogens detected Positive sample, 1 pathogen detected

NUMBER OF PATHOGENIC FINDINGS

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|--|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative sample, no pathogens detected | 3 | - | | | | - |
| Positive sample, 1 pathogen detected | 61 | - | | | | - |
| Total: | 64 | - | - | - | - | |

GIARDIA LAMBLIA

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 4 | - | | | | 0 % |
| Weak positive | 2 | - | | | | 100 % |
| Positive | 57 | 2 | 2 | 100 % | 0 % | 100 % |
| Not in test selection | 1 | - | | | | - |
| Total: | 64 | 2 | 2 | 100 % | 6.3 % | 93.7 % |

| Method | Negative | Weak positive | Positive | Not in test selection | Total: |
|--|----------|---------------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | - | - | 1 | - | 1 |
| Amplicon AmpliTest Giardia intestinalis | - | - | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | - | - | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | - | - | • 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | - | - | 9 | - | 9 |
| In house | - | 1 | - | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 1 | 1 | 2 | - | 4 |

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| Mobidiag Novodiag Stool Parasites | 1 | - | 3 | - | 4 |
|--|---|---|----|---|----|
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | - | - | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | - | - | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | - | - | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 1 | - | 25 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 1 | - | 4 | - | 5 |
| Total: | 4 | 2 | 57 | 1 | 64 |

CRYPTOSPORIDIUM

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 63 | - | | | | - |
| Not in test selection | 1 | - | | | | _ |
| Total: | 64 | - | - | - | - | |

| Method | Negative | Not in test selection | Total: |
|---|----------|-----------------------|--------|
| Ademtech ParaGENIE Crypto-Micro Real-Time PCR Kit | 1 | - | 1 |
| Amplicon AmpliTest Cryptosporidium parvum | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | • 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | 9 |
| In house | 1 | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | 5 |
| Total: | 63 | 1 | 64 |

ENTAMOEBA HISTOLYTICA

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 58 | - | | | | - |
| Positive | 1 | - | | | | 0 % |
| Not in test selection | 5 | - | | | | - |
| Total: | 64 | - | - | - | - | 0 % |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | _ | 1 |
| Amplicon AmpliTest Entamoeba histolytica | 1 | - | _ | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | - | 1 |
| BD MAX Enteric Parasite Panel | • 7 | - | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | - | 9 |
| In house | 2 | - | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | _ | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | _ | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | _ | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | _ | 1 |
| Seegene Allplex GI-Parasite Assay | 25 | 1 | _ | 26 |
| Total: | 58 | 1 | 5 | 64 |

DIENTAMOEBA FRAGILIS

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 39 | - | | | | - |
| Not in test selection | 25 | - | | | | - |
| Total: | 64 | _ | _ | _ | _ | |

| Method | Negative | Not in test selection | Total: |
|--|----------|-----------------------|--------|
| Amplicon AmpliTest Digestive System Parasites II | 1 | - | 1 |
| BioGX Parasitic Enteric CGED - OSR | 2 | - | 2 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 3 | - | 3 |

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| Mobidiag Novodiag Stool Parasites | 4 | _ | 4 |
|--|----|----|----|
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Total: | 39 | 25 | 64 |

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Specimen S003 | Cryptosporidium parvum



Specimen S003 success rate

📕 Sample AVR success rate 🛛 📃 Own success rate 🛛 💻 Target

| Specimen S003 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|-------------------------------|-----------|-----------|------------------|------------|------------------|
| | Number of pathogenic findings | - | - | - | - | - |
| | Giardia lamblia | - | - | - | - | 0 % |
| | Cryptosporidium | 2 | 2 | 100 % | 1.6 % | 98.4 % |
| | Entamoeba histolytica | - | - | - | - | - |
| | Dientamoeba fragilis | - | - | - | - | - |
| Total: | | 2 | 2 | 100 % | 3.1 % | 96.9 % |

Specimen S003 Number of pathogenic findings



Negative sample, no pathogens detected Positive sample, 1 pathogen detected

NUMBER OF PATHOGENIC FINDINGS

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|--|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative sample, no pathogens detected | 1 | - | | | | - |
| Positive sample, 1 pathogen detected | 63 | - | | | | - |
| Total: | 64 | _ | _ | _ | _ | |

GIARDIA LAMBLIA

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 62 | - | | | | - |
| Positive | 1 | - | | | | 0 % |
| Not in test selection | 1 | - | | | | _ |
| Total: | 64 | - | - | - | - | 0 % |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | _ | 1 |
| Amplicon AmpliTest Giardia intestinalis | 1 | - | _ | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | _ | 1 |
| BD MAX Enteric Parasite Panel | • 7 | - | _ | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | - | 9 |
| In house | 1 | - | _ | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | _ | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | _ | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | _ | _ | 2 |

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| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | - | 1 |
|---|----|---|---|----|
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | _ | 1 |
| Seegene Allplex GI-Parasite Assay | 25 | 1 | _ | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | _ | 5 |
| Total: | 62 | 1 | 1 | 64 |

CRYPTOSPORIDIUM

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 1 | - | | | | 0 % |
| Positive | 62 | 2 | 2 | 100 % | 0 % | 100 % |
| Not in test selection | 1 | - | | | | - |
| Total: | 64 | 2 | 2 | 100 % | 1.6 % | 98.4 % |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE Crypto-Micro Real-Time PCR Kit | - | 1 | - | 1 |
| Amplicon AmpliTest Cryptosporidium parvum | - | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | - | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | - | • 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | - | 9 | _ | 9 |
| In house | - | 1 | _ | 1 |
| Mobidiag Amplidiag Stool Parasites | - | 4 | _ | 4 |
| Mobidiag Novodiag Stool Parasites | - | 4 | _ | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | - | 2 | _ | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | - | 1 | _ | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | - | 1 | _ | 1 |
| Seegene Allplex GI-Parasite Assay | 1 | 25 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | - | 5 | - | 5 |
| Total: | 1 | 62 | 1 | 64 |

ENTAMOEBA HISTOLYTICA

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|-----------------------|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 59 | - | | | | - |
| Not in test selection | 5 | - | | | | - |
| Total: | 64 | - | - | - | - | |

| Method | Negative | Not in test selection | Total: |
|---|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | 1 |
| Amplicon AmpliTest Entamoeba histolytica | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | • 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | 9 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Total: | 59 | 5 | 64 |

DIENTAMOEBA FRAGILIS

| Interpretation | Interpretation count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---|----------------------|-----------|-----------|------------------|------------|------------------|
| Negative | 39 | - | | | | - |
| Not in test selection | 25 | - | | | | - |
| Total: | 64 | - | _ | - | _ | |

| Method | Negative | Not in test selection | Total: |
|--|----------|-----------------------|--------|
| Amplicon AmpliTest Digestive System Parasites II | 1 | - | 1 |
| BioGX Parasitic Enteric CGED - OSR | 2 | - | 2 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 3 | - | 3 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | _ | 26 |

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| Total: | 39 | 25 | 64 |
|--------|----|----|----|
| | | | |

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Report Info

PARTICIPANTS

Altogether 68 laboratories from 15 countries participated in this EQA round.

REPORT INFO

The reported results and the scores are presented in the same summary. Sample specific results are shown in the tables as counts. The expected results are indicated in the tables with green colour. The laboratory's own result is shown by a black radio button •.

You can view the result distribution of each specimen and pathogen on screen one by one. The tables can be opened and closed by clicking the screen button at the right end of the row. The result tables of pathogens with a negative result expectation and for which no deviating results have been reported are by default closed for clarification of the report.

The participant's own success is shown both as scores and as success rates (%) generated from the score values. They are presented both in the summary and in the sample specific parts of the report. If you have no results you will get a note: "You have not responded in time, only global report is available."

For information on report interpretation and performance evaluation, please see the "EQAS Interpretation guidelines" in LabScala User instructions. In case you have any questions regarding the reports, please contact the EQA Coordinator.

SCORING

The participants are scored according to their test selection. The round is scored based on test results when 60% or more of the participants report the expected result and when at least three results are reported.

In general, only the positive findings are scored for each specimen. It is expected that the pathogens indicated in the sample content are to be identified, whereas other deviating findings will reduce the overall success rate. For those specimens that are negative regarding all pathogens included in the panel of this scheme, the scoring is based on the answer given to the question "number of pathogenic findings" and the expected result would be "Negative sample, no pathogens detected". Answer "No test result" and "Invalid/unclear test result" will be excluded from the scoring.

The scoring range is 0-2 points and the following general rules are followed:

- 2/2 points is given to results that are correct/accepted regarding the expected result
- 1/2 point can be given to results that are partly correct/insufficient regarding the expected result
- 0/2 point is given to results that are incorrect/false regarding the expected result

The performance of the laboratory is assessed by the Own success rate (%). The target is 100%. The examination-specific scores obtained by the laboratory in the round are converted to Own success rate per sample (scores/maximum scores*100). The Laboratory's Own success rate is the average of the sample success rates.

The success rate for the entire round (AVR success rate) is calculated from the total number of scores given to the results per sample (all scores/maximum scores*100). The AVG success rate of the entire round is the average of the sample success rates. The difference in the Laboratory's Own success rate (%) to the corresponding numbers for the entire round is shown in the table.

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GLOBAL REPORT

| | No of participants | No of responded participants | Response percentage |
|--|--------------------|------------------------------|---------------------|
| Faecal parasites multiplex, nucleic acid detection, February, 1-2023 | 68 | 62 | 91.2 % |

Summary



Overall success rate by samples

| Summary | AVR success rate |
|---------------|------------------|
| Specimen S001 | 95 % |
| Specimen S002 | 92.2 % |
| Specimen S003 | 96.9 % |
| Average: | 94.7 % |

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Specimen S001 | Entamoeba histolytica



Specimen S001 resultsRespondedAVR success rateNumber of pathogenic findings-Giardia lamblia-Cryptosporidium0 %Entamoeba histolytica96.6 %Dientamoeba fragilis-Yotal:95 %





Negative sample, no pathogens detected Positive sample, 1 pathogen detected

NUMBER OF PATHOGENIC FINDINGS

| I to the | | +-+ | |
|----------|------|-----------------|--|
| INTE | rnre | татіоп | |
| | | Cacio II | |

Interpretation count

AVR success rate

| | • | | • |
|--|----|---|---|
| Negative sample, no pathogens detected | 6 | - | - |
| Positive sample, 1 pathogen detected | 58 | - | - |
| Total: | 64 | | |

GIARDIA LAMBLIA

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 63 | - | - |
| Not in test selection | 1 | - | _ |
| Total: | 64 | | |

| Method | Negative | Not in test selection | Total: |
|---|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | _ | 1 |
| Amplicon AmpliTest Giardia intestinalis | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | _ | 1 |
| BD MAX Enteric Parasite Panel | 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | 9 |
| In house | 1 | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |

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| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | 1 |
|---|----|---|----|
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | 5 |
| Total: | 63 | 1 | 64 |

CRYPTOSPORIDIUM

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 62 | - | _ |
| Positive | 1 | 0 % | 0 |
| Not in test selection | 1 | - | _ |
| Total: | 64 | 0 % | |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE Crypto-Micro Real-Time PCR Kit | 1 | - | _ | 1 |
| Amplicon AmpliTest Cryptosporidium parvum | 1 | - | _ | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | _ | 1 |
| BD MAX Enteric Parasite Panel | 7 | - | _ | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | _ | 9 |
| In house | 1 | - | _ | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | _ | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | _ | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | _ | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | _ | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | _ | 1 |
| Seegene Allplex GI-Parasite Assay | 25 | 1 | _ | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | - | 5 |
| Total: | 62 | 1 | 1 | 64 |

ENTAMOEBA HISTOLYTICA

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 2 | 0 % | 0 |
| Positive | 57 | 100 % | 2 |
| Not in test selection | 5 | - | - |
| Total: | 64 | 96.6 % | |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | - | 1 | - | 1 |
| Amplicon AmpliTest Entamoeba histolytica | - | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | - | 1 |
| BD MAX Enteric Parasite Panel | - | 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | - | 9 | - | 9 |
| In house | - | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | - | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | - | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | - | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | - | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | - | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 1 | 25 | - | 26 |
| Total: | 2 | 57 | 5 | 64 |

DIENTAMOEBA FRAGILIS

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 39 | - | - |
| Not in test selection | 25 | - | _ |
| Total: | 64 | | |

| Method | Negative | Not in test selection | Total: |
|--|----------|-----------------------|--------|
| Amplicon AmpliTest Digestive System Parasites II | 1 | - | 1 |
| BioGX Parasitic Enteric CGED - OSR | 2 | - | 2 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 3 | - | 3 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |

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| Total: 39 25 64 | Total: | 39 | 25 | 64 |
|-----------------|--------|----|----|----|

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Specimen S002 | Giardia lamblia



| Specimen S002 results | Responded | AVR success rate |
|-----------------------|-------------------------------|------------------|
| | Number of pathogenic findings | - |
| | Giardia lamblia | 93.7 % |
| | Cryptosporidium | - |
| | Entamoeba histolytica | 0 % |
| | Dientamoeba fragilis | - |
| Total: | | 92.2 % |





Negative sample, no pathogens detected Positive sample, 1 pathogen detected

NUMBER OF PATHOGENIC FINDINGS

| Look of | |
|---------|------------|
| INTE | rnretation |
| | piccucion |

Interpretation count

AVR success rate

| Negative sample, no pathogens detected | 3 | - | |
|--|----|---|---|
| Positive sample, 1 pathogen detected | 61 | - | - |
| Total: | 64 | | |

GIARDIA LAMBLIA

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 4 | 0 % | 0 |
| Weak positive | 2 | 100 % | 2 |
| Positive | 57 | 100 % | 2 |
| Not in test selection | 1 | - | _ |
| Total: | 64 | 93.7 % | |

| Method | Negative | Weak positive | Positive | Not in test selection | Total: |
|--|----------|---------------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | - | - | 1 | - | 1 |
| Amplicon AmpliTest Giardia intestinalis | - | - | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | - | - | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | - | - | 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | - | - | 9 | - | 9 |
| In house | - | 1 | - | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 1 | 1 | 2 | - | 4 |

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| Mobidiag Novodiag Stool Parasites | 1 | _ | 3 | _ | 4 |
|--|---|---|----|---|----|
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | - | - | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | - | - | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | - | - | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 1 | - | 25 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 1 | - | 4 | - | 5 |
| Total: | 4 | 2 | 57 | 1 | 64 |

CRYPTOSPORIDIUM

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 63 | - | - |
| Not in test selection | 1 | - | - |
| Total: | 64 | | |

| Method | Negative | Not in test selection | Total: |
|---|----------|-----------------------|--------|
| Ademtech ParaGENIE Crypto-Micro Real-Time PCR Kit | 1 | - | 1 |
| Amplicon AmpliTest Cryptosporidium parvum | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | _ | 1 |
| BD MAX Enteric Parasite Panel | 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | _ | 9 |
| In house | 1 | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | 5 |
| Total: | 63 | 1 | 64 |

ENTAMOEBA HISTOLYTICA

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 58 | - | - |
| Positive | 1 | 0 % | 0 |
| Not in test selection | 5 | - | - |
| Total: | 64 | 0 % | |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | - | 1 |
| Amplicon AmpliTest Entamoeba histolytica | 1 | - | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | _ | 1 |
| BD MAX Enteric Parasite Panel | 7 | - | _ | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | _ | 9 |
| In house | 2 | - | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | _ | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | _ | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | - | 1 |
| Seegene Allplex GI-Parasite Assay | 25 | 1 | - | 26 |
| Total: | 58 | 1 | 5 | 64 |

DIENTAMOEBA FRAGILIS

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 39 | - | - |
| Not in test selection | 25 | - | _ |
| Total: | 64 | | |

| Method | Negative | Not in test selection | Total: |
|--|----------|-----------------------|--------|
| Amplicon AmpliTest Digestive System Parasites II | 1 | - | 1 |
| BioGX Parasitic Enteric CGED - OSR | 2 | - | 2 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 3 | - | 3 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |

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| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
|--|----|----|----|
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Total: | 39 | 25 | 64 |

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Specimen S003 | Cryptosporidium parvum



Specimen S003 resultsRespondedAVR success rateNumber of pathogenic findings-Giardia lamblia0 %Cryptosporidium98.4 %Intamoeba histolytica-Dientamoeba fragilis-Starter96.9 %





Negative sample, no pathogens detected Positive sample, 1 pathogen detected

NUMBER OF PATHOGENIC FINDINGS

| I to the set | |
|--------------|-----------|
| Inter | nretation |
| | precucion |

Interpretation count

AVR success rate

| | • | | • |
|--|----|---|---|
| Negative sample, no pathogens detected | 1 | - | - |
| Positive sample, 1 pathogen detected | 63 | - | - |
| Total: | 64 | | |

GIARDIA LAMBLIA

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 62 | - | - |
| Positive | 1 | 0 % | 0 |
| Not in test selection | 1 | - | _ |
| Total: | 64 | 0 % | |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | - | 1 |
| Amplicon AmpliTest Giardia intestinalis | 1 | - | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | - | 1 |
| BD MAX Enteric Parasite Panel | 7 | - | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | - | 9 |
| In house | 1 | - | - | 1 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | _ | _ | 2 |

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| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | - | 1 |
|---|----|---|---|----|
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | - | 1 |
| Seegene Allplex GI-Parasite Assay | 25 | 1 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | 5 | - | - | 5 |
| Total: | 62 | 1 | 1 | 64 |

CRYPTOSPORIDIUM

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 1 | 0 % | 0 |
| Positive | 62 | 100 % | 2 |
| Not in test selection | 1 | - | - |
| Total: | 64 | 98.4 % | |

| Method | Negative | Positive | Not in test selection | Total: |
|---|----------|----------|-----------------------|--------|
| Ademtech ParaGENIE Crypto-Micro Real-Time PCR Kit | - | 1 | - | 1 |
| Amplicon AmpliTest Cryptosporidium parvum | - | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | - | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | - | 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | - | 9 | - | 9 |
| In house | - | 1 | - | 1 |
| Mobidiag Amplidiag Stool Parasites | - | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | - | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | - | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | - | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | - | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 1 | 25 | - | 26 |
| Serosep EntericBio Gastro Panel 2 | - | 5 | - | 5 |
| Total: | 1 | 62 | 1 | 64 |

ENTAMOEBA HISTOLYTICA

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 59 | - | - |
| Not in test selection | 5 | - | - |
| Total: | 64 | | |

| Method | Negative | Not in test selection | Total: |
|---|----------|-----------------------|--------|
| Ademtech ParaGENIE G-Amoeba Real-Time PCR Kit | 1 | - | 1 |
| Amplicon AmpliTest Entamoeba histolytica | 1 | - | 1 |
| AusDiagnostics Faecal Bacteria and Parasites | 1 | - | 1 |
| BD MAX Enteric Parasite Panel | 7 | - | 7 |
| BioFire FilmArray Gastrointestinal (GI) Panel | 9 | - | 9 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 4 | - | 4 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| Qiagen STAT-Dx DiagCORE Gastrointestinal Panel V2 | 2 | - | 2 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| R-Biopharm RIDA GENE Parasitic Stool Panel II | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |
| Total: | 59 | 5 | 64 |

DIENTAMOEBA FRAGILIS

| Interpretation | Interpretation count | AVR success rate | Interpretation Score |
|-----------------------|----------------------|------------------|----------------------|
| Negative | 39 | - | - |
| Not in test selection | 25 | - | _ |
| Total: | 64 | | |

| Method | Negative | Not in test selection | Total: |
|--|----------|-----------------------|--------|
| Amplicon AmpliTest Digestive System Parasites II | 1 | - | 1 |
| BioGX Parasitic Enteric CGED - OSR | 2 | - | 2 |
| In house | 2 | - | 2 |
| Mobidiag Amplidiag Stool Parasites | 3 | - | 3 |
| Mobidiag Novodiag Stool Parasites | 4 | - | 4 |
| R-Biopharm RIDA GENE Parasitic Stool Panel I | 1 | - | 1 |
| Seegene Allplex GI-Parasite Assay | 26 | - | 26 |

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| Total: 39 25 64 | Total: | 39 | 25 | 64 |
|-----------------|--------|----|----|----|

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Report Info

PARTICIPANTS

Altogether 68 laboratories from 15 countries participated in this EQA round.

REPORT INFO

The reported results and the scores are presented in the same summary. Sample specific results are shown in the tables as counts. The expected results are indicated in the tables with green colour. The laboratory's own result is shown by a black radio button •.

You can view the result distribution of each specimen and pathogen on screen one by one. The tables can be opened and closed by clicking the screen button at the right end of the row. The result tables of pathogens with a negative result expectation and for which no deviating results have been reported are by default closed for clarification of the report.

The participant's own success is shown both as scores and as success rates (%) generated from the score values. They are presented both in the summary and in the sample specific parts of the report. If you have no results you will get a note: "You have not responded in time, only global report is available."

For information on report interpretation and performance evaluation, please see the "EQAS Interpretation guidelines" in LabScala User instructions. In case you have any questions regarding the reports, please contact the EQA Coordinator.

SCORING

The participants are scored according to their test selection. The round is scored based on test results when 60% or more of the participants report the expected result and when at least three results are reported.

In general, only the positive findings are scored for each specimen. It is expected that the pathogens indicated in the sample content are to be identified, whereas other deviating findings will reduce the overall success rate. For those specimens that are negative regarding all pathogens included in the panel of this scheme, the scoring is based on the answer given to the question "number of pathogenic findings" and the expected result would be "Negative sample, no pathogens detected". Answer "No test result" and "Invalid/unclear test result" will be excluded from the scoring.

The scoring range is 0-2 points and the following general rules are followed:

- 2/2 points is given to results that are correct/accepted regarding the expected result
- 1/2 point can be given to results that are partly correct/insufficient regarding the expected result
- 0/2 point is given to results that are incorrect/false regarding the expected result

The performance of the laboratory is assessed by the Own success rate (%). The target is 100%. The examination-specific scores obtained by the laboratory in the round are converted to Own success rate per sample (scores/maximum scores*100). The Laboratory's Own success rate is the average of the sample success rates.

The success rate for the entire round (AVR success rate) is calculated from the total number of scores given to the results per sample (all scores/maximum scores*100). The AVG success rate of the entire round is the average of the sample success rates. The difference in the Laboratory's Own success rate (%) to the corresponding numbers for the entire round is shown in the table.

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LABQUALITY

External Quality Assessment Scheme

Faecal parasites multiplex, nucleic acid detection Round 1, 2023

Specimens

The samples were three lyophilized samples. Based on the quality controls conducted by the sample material manufacturer and the results obtained in the round, the sample lots are to be considered as homogeneous, stable and suitable for external quality assessment. The materials were sent without temperature control packaging.

The expected results were as follows:

Sample S001 (LQ769823011) Entamoeba histolytica positive, Ct 23.2±0.1

Sample S002 (LQ769823012) Giardia lamblia positive, Ct 28.4±0.9

Sample S003 (LQ769823013) Cryptosporidium parvum positive, Ct 25.6±0.2

Pre-test method: DNA extraction with MagMax DNA Multi-Sample Ultra Kit and qPCR with QuantStudio instrument.

Report info

Please see the description of the data analysis on the last page of the laboratory-specific reports and global reports. It is important to read the Final report first, because it contains important information of the samples and results in each round.

Comments – EQA Coordinator

The results of the round were good (average success rate 94.7%). A few erroneous results were reported for each sample. One participant has probably mixed up all the samples or results in the round.

Exceptions in scoring

No exceptions.

End of report

2023-03-17

FINAL REPORT

Product no. 5472

| Samples sent | 2023-02-14 |
|------------------|------------|
| Round closed | 2023-03-09 |
| Expected results | 2023-03-14 |
| Final report | 2023-03-17 |

Request for correction

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.

Authorized by

EQA Coordinator Jaana Paakkanen jaana.paakkanen@labquality.fi

Expert

MD, PhD, DVM Antti Lavikainen University of Helsinki, Finland

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