

External Quality Assessment Scheme

Influenza virus A+B and RS virus, nucleic acid detection Round 1, 2023

Specimens

Please find enclosed 5 artificial nasopharyngeal samples S001-S005, each 1 mL.

Caution

The specimens simulate patient samples and should be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases. The specimens may contain infectious viruses. The specimens have not been inactivated.

Examinations

InfA NAT
InfB NAT
InfA/B NAT*
RSV NAT

***Note!** The new analyte, influenza A/B virus NAT, has been moved to the third position in the result form list. This analyte is for methods that do not differentiate between influenza A and B viruses.

Storage and use

After arrival, the samples should be stored at +2 ... 8 °C, and used as soon as possible, preferably within a week. The samples are ready for use. Extract and analyse as patient samples and follow the instructions given by the test manufacturer.

Result reporting

Please enter the results and methods via LabScala (www.labscala.com). If you cannot find your instrument or reagent from the registry, please contact the EQA Coordinator. Report only the results of examinations that are in use in your laboratory. All reported examinations will be scored.

S001



S004



S002



S005



S003



2023-02-07

INSTRUCTIONS

Product no. 5670
LQ774923011-015/FI
UN3373

Subcontracting: Sample preparation, sample pretesting

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 6, 2023.**

The expected results of the round are published in LabScala in the View Reports section by March 10, 2023.

Inquiries

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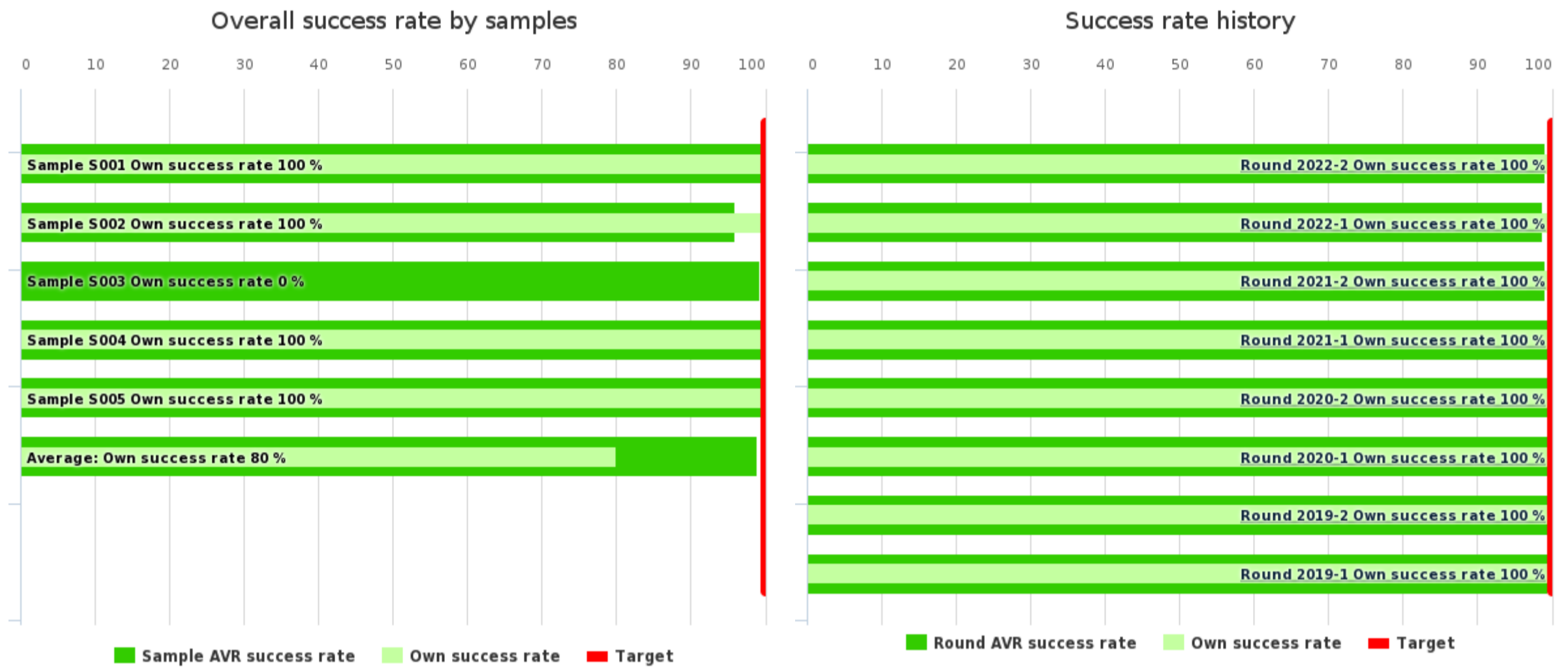
info@labquality.fi
www.labquality.com



Client report

| | No of participants | No of responded participants | Response percentage |
|--|--------------------|------------------------------|---------------------|
| Influenza virus A+B and RS virus, nucleic acid detection, February, 1-2023 | 186 | 174 | 93.5 % |

Summary

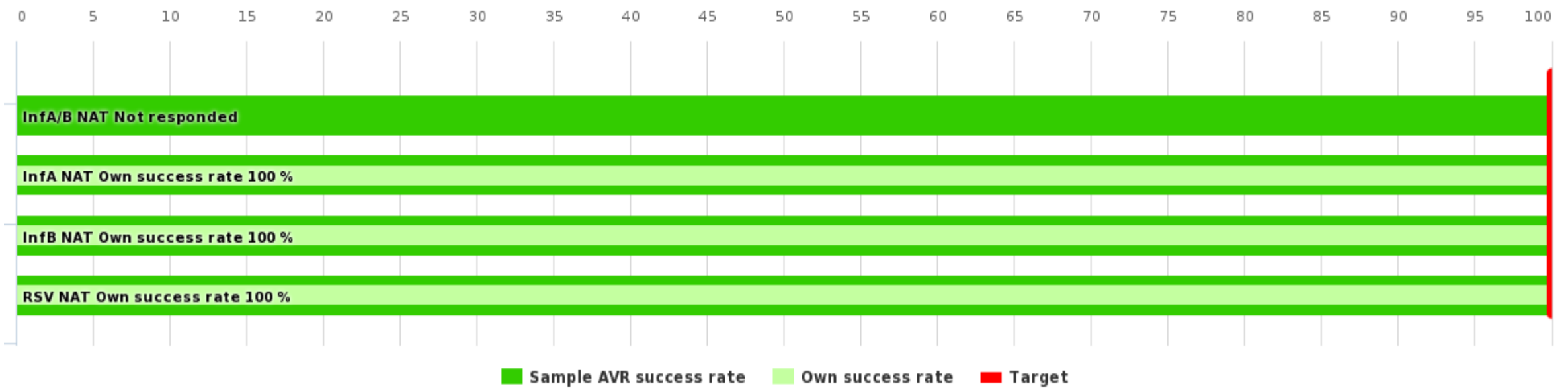


| Summary | Own score | Max score | Own success rate | Difference | AVR success rate |
|-------------|-----------|-----------|------------------|------------|------------------|
| Sample S001 | 6 | 6 | 100 % | 0 % | 100 % |
| Sample S002 | 6 | 6 | 100 % | 4 % | 96 % |
| Sample S003 | 0 | 6 | 0 % | -99.3 % | 99.3 % |
| Sample S004 | 6 | 6 | 100 % | 0.3 % | 99.7 % |
| Sample S005 | 6 | 6 | 100 % | 0.3 % | 99.7 % |
| Average: | | | 80 % | -18.9 % | 98.9 % |

| History | Test nr. | Own success rate | Difference | AVR success rate |
|--------------|----------|------------------|------------|------------------|
| Round 2022-2 | 1-1 | 100 % | 0.8 % | 99.2 % |
| Round 2022-1 | 1-1 | 100 % | 1.2 % | 98.8 % |
| Round 2021-2 | 1-1 | 100 % | 0.9 % | 99.1 % |
| Round 2021-1 | 1-1 | 100 % | 0.2 % | 99.8 % |
| Round 2020-2 | 1-1 | 100 % | 0.5 % | 99.5 % |
| Round 2020-1 | 1-1 | 100 % | 0.5 % | 99.5 % |
| Round 2019-2 | 1-1 | 100 % | 0.3 % | 99.7 % |
| Round 2019-1 | 1-1 | 100 % | 0.6 % | 99.4 % |

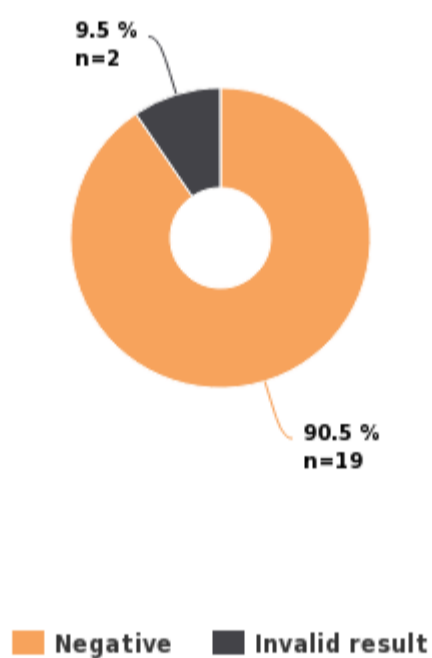
Sample S001

Sample S001 success rate

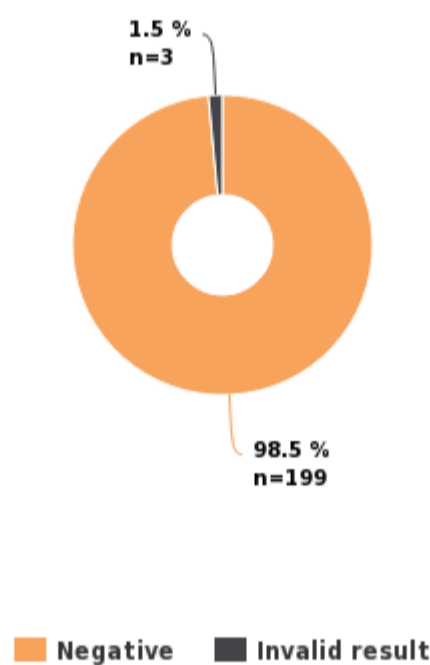


| Sample S001 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate | Count |
|---------------------|------------|-----------|-----------|------------------|------------|------------------|-------|
| | InfA/B NAT | - | - | - | - | 100 % | 21 |
| | InfA NAT | 2 | 2 | 100 % | 0 % | 100 % | 202 |
| | InfB NAT | 2 | 2 | 100 % | 0 % | 100 % | 202 |
| | RSV NAT | 2 | 2 | 100 % | 0 % | 100 % | 171 |
| | Total: | 6 | 6 | 100 % | 0 % | 100 % | 596 |

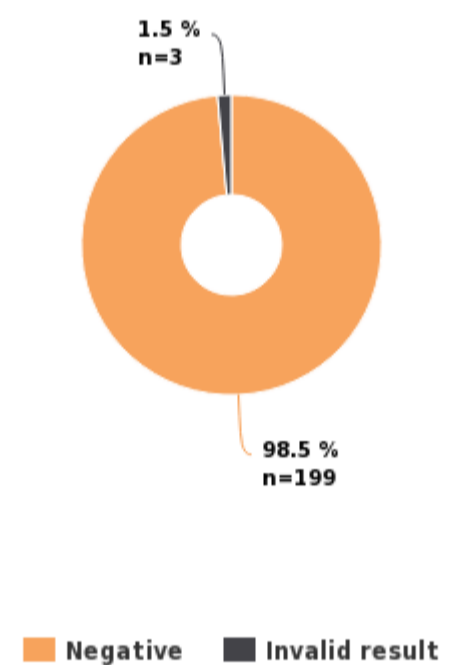
Sample S001 InfA/B NAT



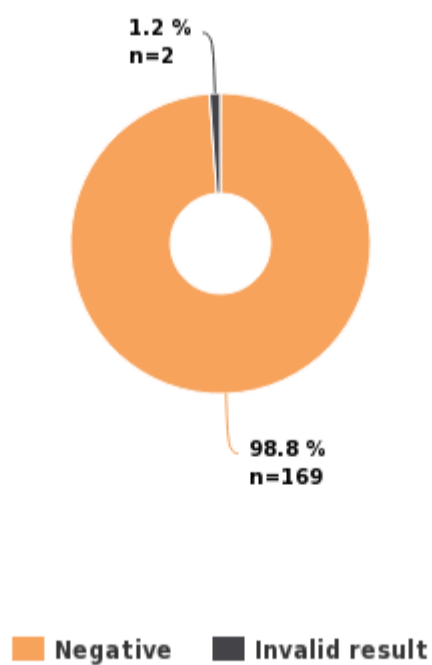
Sample S001 InfA NAT



Sample S001 InfB NAT



Sample S001 RSV NAT



| InfA/B NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------|----------|--------|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 19 | | - | | | | 100 % |

| | | | | | | | | | |
|--|----------------|---|----|---|---|---|---|---|-------|
| | | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | | 5 | | | | | |
| | | Biosynex AMPLIQUICK Respiratory Duplex | | 2 | | | | | |
| | | Eurobio Scientific EurobioPlex FluCoSyn | | 2 | | | | | |
| | | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | | 7 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | | 1 | | | | | |
| | Invalid result | | 2 | | - | | | | - |
| | | Eurobio Scientific EurobioPlex FluCoSyn | | 1 | | | | | |
| | | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | | 1 | | | | | |
| | Total: | | 21 | | - | - | - | - | 100 % |

OWN DEVICE: GENEXPERT

| InfA NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 199 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 40 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 3 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 6 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 52 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Invalid result | | 3 | | - | | | | - |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 2 | | | | | |

| | | | | | | | | | |
|--|--------|--|-----|---|---|---|-------|-----|-------|
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | Total: | | 202 | | 2 | 2 | 100 % | 0 % | 100 % |

OWN DEVICE: GENEXPERT

| InfB NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 199 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 40 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 3 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 6 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 53 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 11 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | | ELITechGroup Respiratory Viral ELITE MGB Panel | | 3 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Invalid result | | 3 | | - | | | | - |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 2 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | Total: | | 202 | | 2 | 2 | 100 % | 0 % | 100 % |

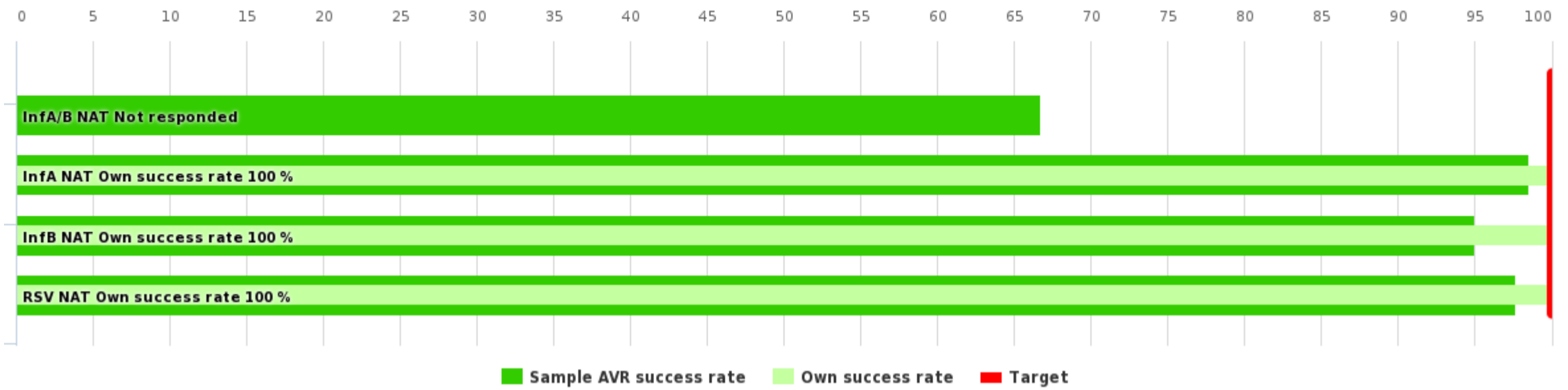
OWN DEVICE: GENEXPERT

| RSV NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 169 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |

| | | | | | | | | |
|--|---|-----|----|---|---|-------|-----|-------|
| | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | Abbott ID NOW RSV | | 11 | | | | | |
| | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | | 3 | | | | | |
| | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | bioMerieux Argene RSV/hMPV r-gene | | 1 | | | | | |
| | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | Cepheid Xpert Flu/RSV | | 7 | | | | | |
| | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 52 | | | | | |
| | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | | 2 | | | | | |
| | In-house NAT | | 2 | | | | | |
| | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | Roche cobas Liat Influenza A/B RSV Assay | | 13 | | | | | |
| | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | | 1 | | | | | |
| | Invalid result | 2 | | - | | | | - |
| | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | | 1 | | | | | |
| | Total: | 171 | | 2 | 2 | 100 % | 0 % | 100 % |

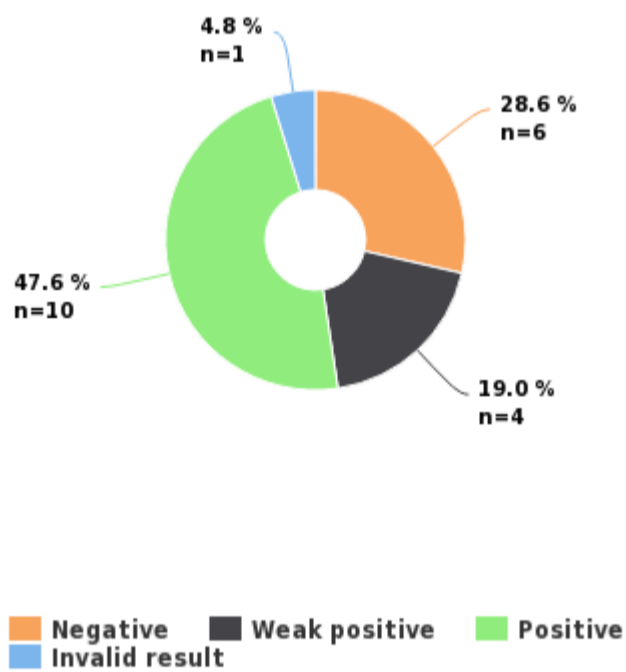
Sample S002

Sample S002 success rate

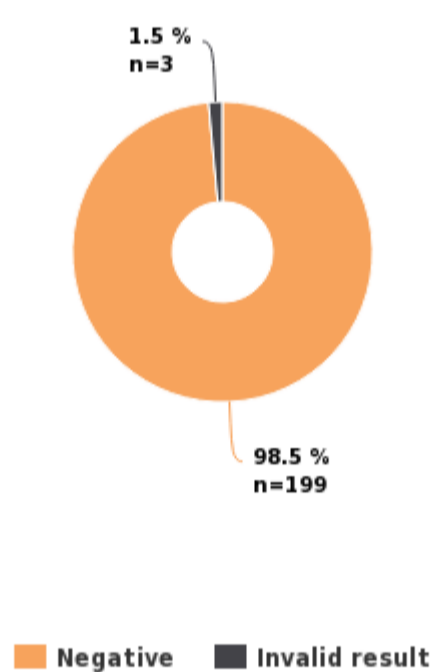


| Sample S002 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate | Count |
|---------------------|------------|-----------|-----------|------------------|------------|------------------|-------|
| | InfA/B NAT | - | - | - | - | 66.7 % | 21 |
| | InfA NAT | 2 | 2 | 100 % | 1.5 % | 98.5 % | 202 |
| | InfB NAT | 2 | 2 | 100 % | 5 % | 95 % | 202 |
| | RSV NAT | 2 | 2 | 100 % | 2.3 % | 97.7 % | 171 |
| | Total: | 6 | 6 | 100 % | 4 % | 96 % | 596 |

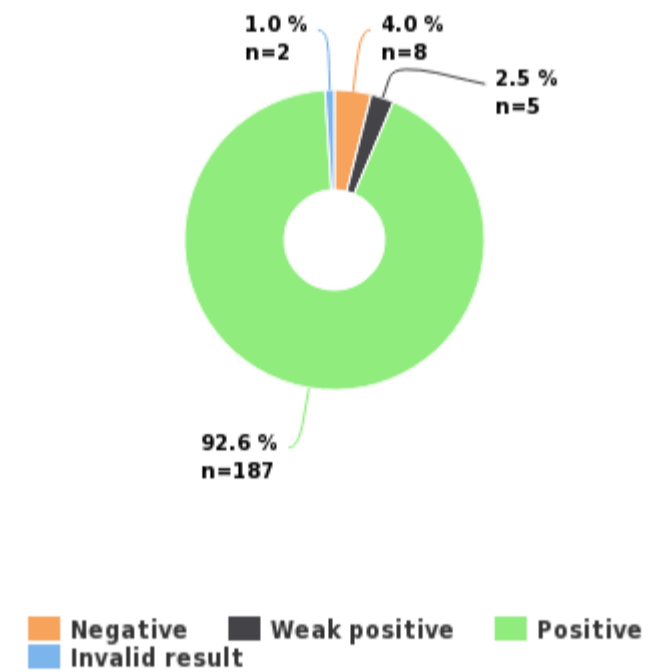
Sample S002 InfA/B NAT



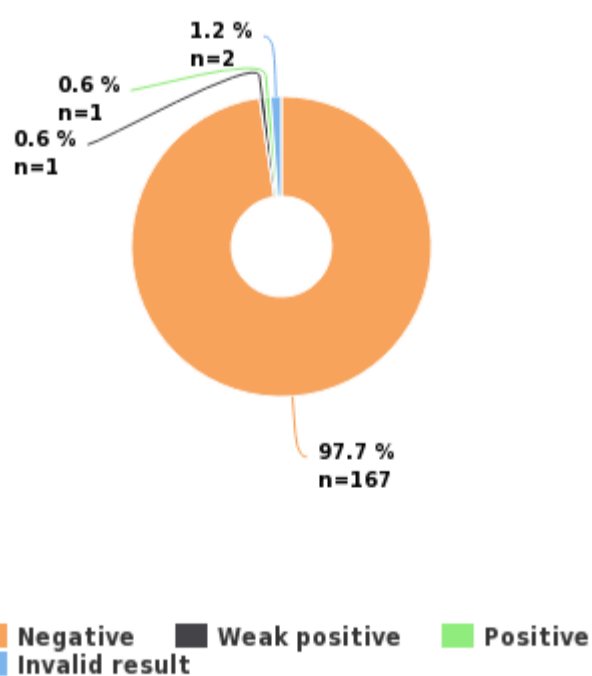
Sample S002 InfA NAT



Sample S002 InfB NAT



Sample S002 RSV NAT



| InfA/B NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------|----------|--------|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 6 | | - | | | | 0 % |

| | | | | | | | | |
|----------------|---|----|---|---|---|---|---|--------|
| | Biosynex AMPLIQUICK Respiratory Duplex | 2 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | 2 | | | | | | |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 1 | | | | | | |
| | In-house NAT | 1 | | | | | | |
| Weak positive | | 4 | - | | | | | 100 % |
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 3 | | | | | | |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 1 | | | | | | |
| Positive | | 10 | - | | | | | 100 % |
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 2 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | 1 | | | | | | |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 6 | | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | 1 | | | | | | |
| Invalid result | | 1 | - | | | | | 0 % |
| | In-house NAT | 1 | | | | | | |
| Total: | | 21 | - | - | - | - | - | 66.7 % |

OWN DEVICE: GENEXPERT

| InfA NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 199 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 5 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 6 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 53 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 2 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 2 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |

| | | | | | | | | | |
|--|----------------|---|-----|---|---|---|-------|-------|--------|
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 1 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Invalid result | | 3 | | - | | | | 0 % |
| | | Abbott ID NOW Influenza A B 2 | | 1 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 1 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 1 | | | | | |
| | Total: | | 202 | | 2 | 2 | 100 % | 1.5 % | 98.5 % |

OWN DEVICE: GENEXPERT

| InfB NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|--|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 8 | | - | | | | 0 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 1 | | | | | |
| | | Cepheid Xpert Xpress Flu/RSV | | 3 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | Weak positive | | 5 | | - | | | | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Cepheid Xpert Xpress Flu/RSV | | 2 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 1 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 1 | | | | | |
| | <input checked="" type="radio"/> Positive | | 187 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 5 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 6 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 49 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 11 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 6 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 1 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 2 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |

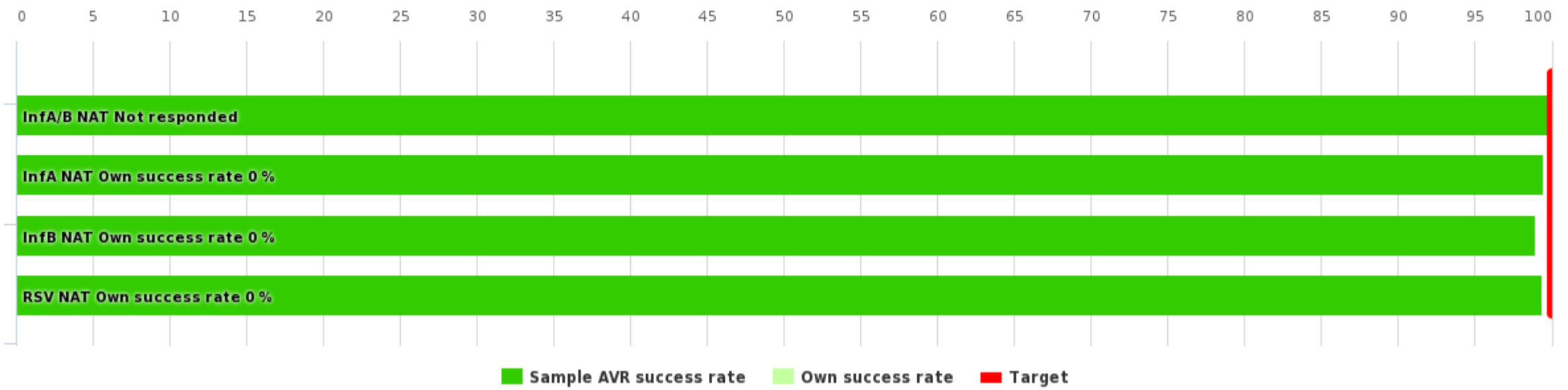
| | | | | | | | | | |
|--|----------------|--|-----|---|---|---|-------|-----|------|
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Invalid result | | 2 | | - | | | | 0 % |
| | | ELITechGroup Respiratory Viral ELITE MGB Panel | | 1 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 1 | | | | | |
| | Total: | | 202 | | 2 | 2 | 100 % | 5 % | 95 % |

OWN DEVICE: GENEXPERT

| RSV NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 167 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW RSV | | 11 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | | 3 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | bioMerieux Argene RSV/hMPV r-gene | | 1 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 7 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 22 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 53 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 2 | | | | | |
| | | ELITechGroup Respiratory Viral ELITE MGB Panel | | 2 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | Eurobio Scientific EurobioPlex FluCoSyn | | 3 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 13 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 1 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | | 1 | | | | | |
| | Weak positive | | 1 | | - | | | | 0 % |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 1 | | | | | |
| | Positive | | 1 | | - | | | | 0 % |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | Invalid result | | 2 | | - | | | | 0 % |
| | | ELITechGroup Respiratory Viral ELITE MGB Panel | | 1 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 1 | | | | | |
| | Total: | | 171 | | 2 | 2 | 100 % | 2.3 % | 97.7 % |

Sample S003

Sample S003 success rate



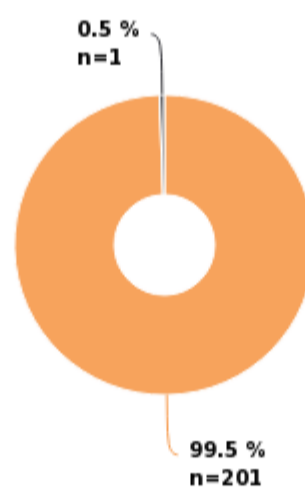
| Sample S003 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate | Count |
|---------------------|------------|-----------|-----------|------------------|------------|------------------|-------|
| | InfA/B NAT | - | - | - | - | 100 % | 21 |
| | InfA NAT | 0 | 2 | 0 % | -99.5 % | 99.5 % | 202 |
| | InfB NAT | 0 | 2 | 0 % | -99 % | 99 % | 202 |
| | RSV NAT | 0 | 2 | 0 % | -99.4 % | 99.4 % | 171 |
| | Total: | 0 | 6 | 0 % | -99.3 % | 99.3 % | 596 |

Sample S003 InfA/B NAT



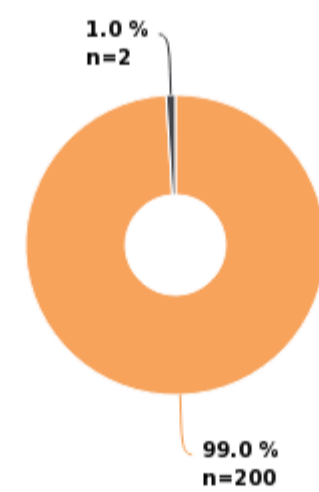
Positive

Sample S003 InfA NAT



Positive Invalid result

Sample S003 InfB NAT



Negative Invalid result

Sample S003 RSV NAT



Negative Invalid result

| InfA/B NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------|----------|--------|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Positive | | 21 | | - | | | | 100 % |

| | | | | | | | | |
|--|---|-----------|--|--|--|--|--|--------------|
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 5 | | | | | | |
| | Biosynex AMPLIQUICK Respiratory Duplex | 2 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | 3 | | | | | | |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 8 | | | | | | |
| | In-house NAT | 2 | | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | 1 | | | | | | |
| | Total: | 21 | | | | | | 100 % |

OWN DEVICE: GENEXPERT

| InfA NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|------------------|---|--------------|--------------|-----------|-----------|------------------|----------------|------------------|
| | Positive | | 201 | | - | | | | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 5 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 7 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | | Cepheid Xpert Xpress Flu/RSV | | 52 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 2 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | ⊙ Invalid result | | 1 | | 0 | 2 | 0 % | 0 % | 0 % |
| | | ⊙ Cepheid Xpert Xpress Flu/RSV | | 1 | | | | | |
| | Total: | | 202 | | 0 | 2 | 0 % | -99.5 % | 99.5 % |

OWN DEVICE: GENEXPERT

| InfB NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|------------------|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 200 | | - | | | | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 38 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 5 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 7 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | | Cepheid Xpert Xpress Flu/RSV | | 53 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 11 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 2 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | ⊖ Invalid result | | 2 | | 0 | 2 | 0 % | 0 % | 0 % |
| | | Abbott ID NOW Influenza A B 2 | | 1 | | | | | |
| | | ⊖ Cepheid Xpert Xpress Flu/RSV | | 1 | | | | | |
| | Total: | | 202 | | 0 | 2 | 0 % | -99 % | 99 % |

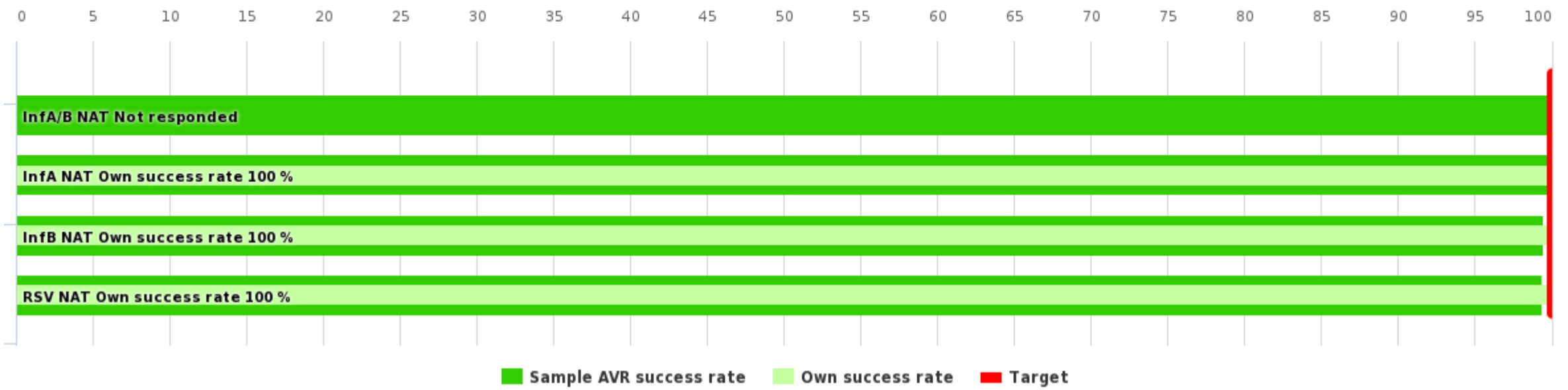
OWN DEVICE: GENEXPERT

| RSV NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---------|----------|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 170 | | - | | | | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW RSV | | 11 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |

| | | | | | | | | |
|--|---|--|-----|---|---|-----|---------|--------|
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | | 3 | | | | | |
| | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | bioMerieux Argene RSV/hMPV r-gene | | 1 | | | | | |
| | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | Cepheid Xpert Flu/RSV | | 7 | | | | | |
| | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 23 | | | | | |
| | Cepheid Xpert Xpress Flu/RSV | | 52 | | | | | |
| | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | DiaSorin Simplexa Flu A/B RSV Direct | | 2 | | | | | |
| | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | ELITechGroup SARS-CoV-2 PLUS ELITe MGB Kit | | 1 | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | | 3 | | | | | |
| | In-house NAT | | 2 | | | | | |
| | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | Roche cobas Liat Influenza A/B RSV Assay | | 13 | | | | | |
| | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | | 1 | | | | | |
| | ⊙ Invalid result | | 1 | 0 | 2 | 0 % | 0 % | 0 % |
| | ⊙ Cepheid Xpert Xpress Flu/RSV | | 1 | | | | | |
| | Total: | | 171 | 0 | 2 | 0 % | -99.4 % | 99.4 % |

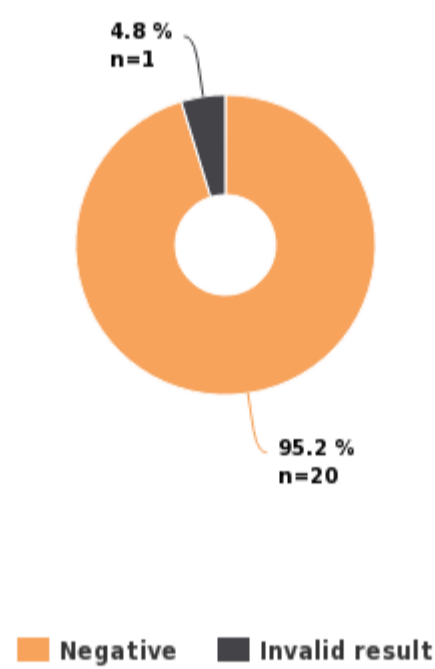
Sample S004

Sample S004 success rate

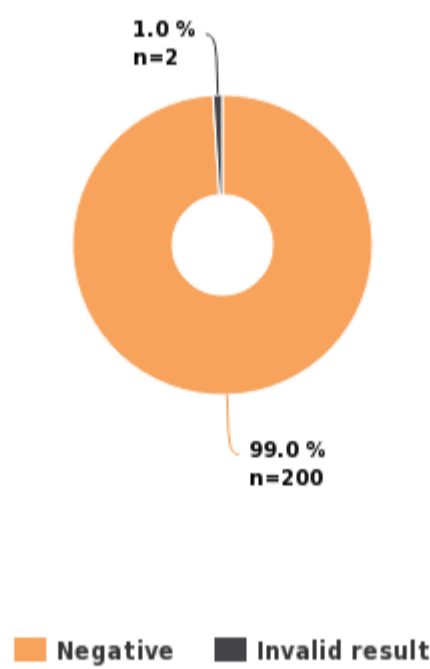


| Sample S004 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate | Count |
|---------------------|------------|-----------|-----------|------------------|------------|------------------|-------|
| | InfA/B NAT | - | - | - | - | 100 % | 21 |
| | InfA NAT | 2 | 2 | 100 % | 0 % | 100 % | 202 |
| | InfB NAT | 2 | 2 | 100 % | 0.5 % | 99.5 % | 202 |
| | RSV NAT | 2 | 2 | 100 % | 0.6 % | 99.4 % | 172 |
| | Total: | 6 | 6 | 100 % | 0.3 % | 99.7 % | 597 |

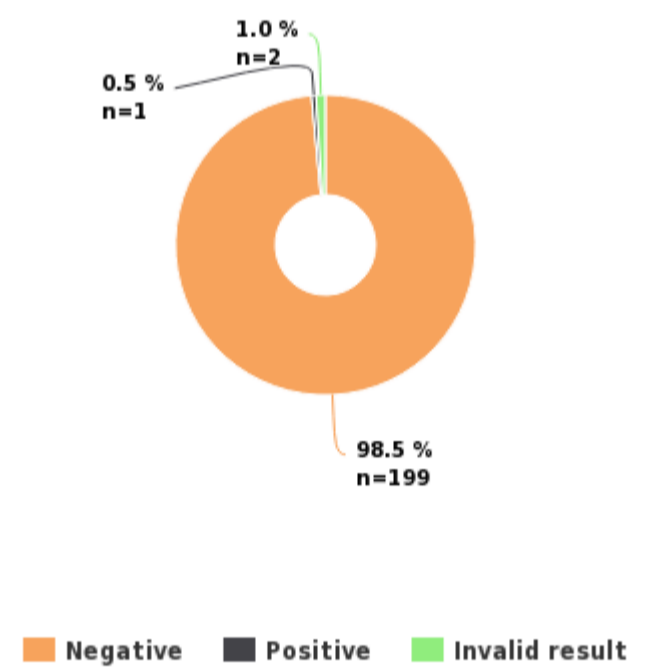
Sample S004 InfA/B NAT



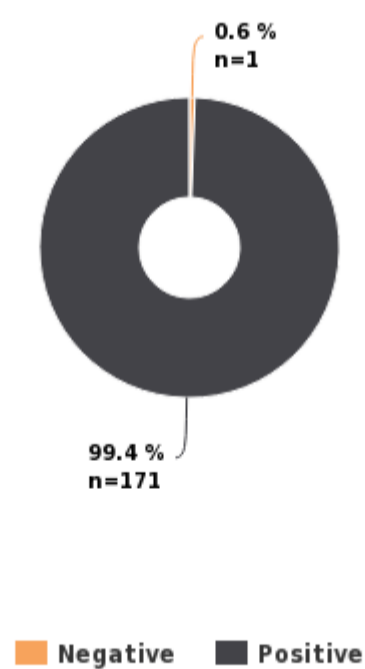
Sample S004 InfA NAT



Sample S004 InfB NAT



Sample S004 RSV NAT



| InfA/B NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------|----------|--------|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 20 | | - | | | | 100 % |

| | | | | | | | | |
|----------------|---|----|---|---|---|---|---|-------|
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 5 | | | | | | |
| | Biosynex AMPLIQUICK Respiratory Duplex | 2 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | 3 | | | | | | |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 7 | | | | | | |
| | In-house NAT | 2 | | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | 1 | | | | | | |
| Invalid result | | 1 | - | | | | | - |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 1 | | | | | | |
| Total: | | 21 | - | - | - | - | - | 100 % |

OWN DEVICE: GENEXPERT

| InfA NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 200 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 3 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 8 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 21 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 53 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITe MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| Invalid result | | | 2 | | - | | | | - |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 2 | | | | | |

| | | | | | | | |
|--------|--|-----|---|---|-------|-----|-------|
| Total: | | 202 | 2 | 2 | 100 % | 0 % | 100 % |
|--------|--|-----|---|---|-------|-----|-------|

OWN DEVICE: GENEXPERT

| InfB NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 199 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 3 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 8 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 21 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 54 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 11 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Positive | | 1 | | - | | | | 0 % |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | Invalid result | | 2 | | - | | | | - |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 2 | | | | | |
| | Total: | | 202 | | 2 | 2 | 100 % | 0.5 % | 99.5 % |

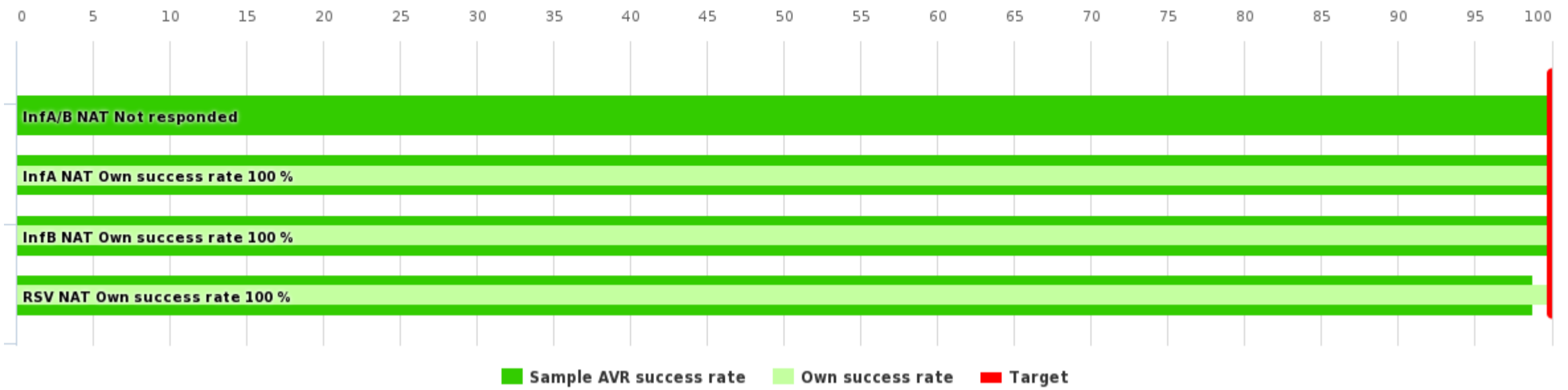
OWN DEVICE: GENEXPERT

| RSV NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 1 | | - | | | | 0 % |
| | | Seegene Allplex Respiratory Panel 1 | | 1 | | | | | |
| | <input checked="" type="radio"/> Positive | | 171 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |

| | | | | | | | | | |
|--|--|--|-----|--|---|---|-------|-------|--------|
| | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | | |
| | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | | |
| | Abbott ID NOW RSV | | 11 | | | | | | |
| | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | | |
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | | 3 | | | | | | |
| | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | | |
| | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | | |
| | bioMerieux Argene RSV/hMPV r-gene | | 1 | | | | | | |
| | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | | |
| | Cepheid Xpert Flu/RSV | | 8 | | | | | | |
| | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 21 | | | | | | |
| | ☉ Cepheid Xpert Xpress Flu/RSV | | 54 | | | | | | |
| | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | | |
| | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | | |
| | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | | |
| | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | | |
| | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | | 3 | | | | | | |
| | In-house NAT | | 2 | | | | | | |
| | Mobidiag Amplidiag RESP-4 | | 1 | | | | | | |
| | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | | |
| | Roche cobas Liat Influenza A/B RSV Assay | | 13 | | | | | | |
| | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | | |
| | Seegene Allplex Respiratory Panel 1 | | 3 | | | | | | |
| | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | | |
| | Seegene Anyplex II RV16 | | 1 | | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | | 1 | | | | | | |
| | Total: | | 172 | | 2 | 2 | 100 % | 0.6 % | 99.4 % |

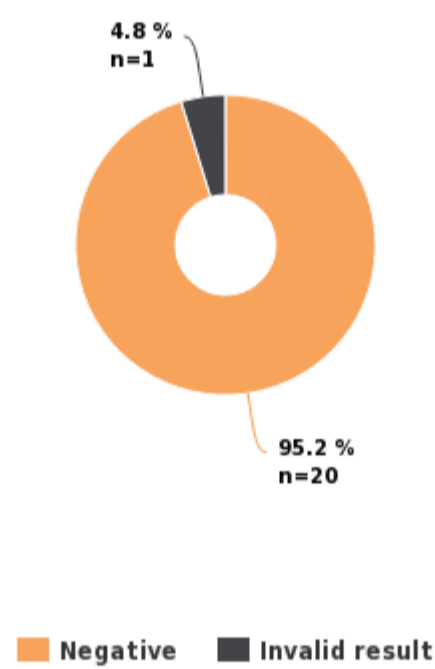
Sample S005

Sample S005 success rate

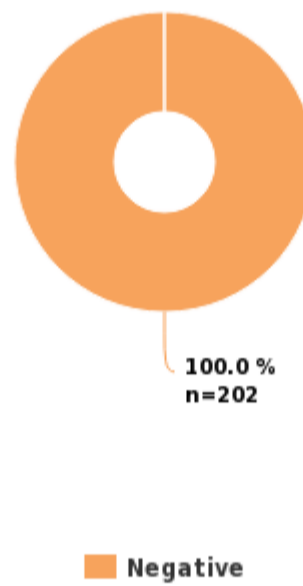


| Sample S005 results | Responded | Own score | Max score | Own success rate | Difference | AVR success rate | Count |
|---------------------|------------|-----------|-----------|------------------|------------|------------------|-------|
| | InfA/B NAT | - | - | - | - | 100 % | 21 |
| | InfA NAT | 2 | 2 | 100 % | 0 % | 100 % | 202 |
| | InfB NAT | 2 | 2 | 100 % | 0 % | 100 % | 202 |
| | RSV NAT | 2 | 2 | 100 % | 1.2 % | 98.8 % | 172 |
| | Total: | 6 | 6 | 100 % | 0.3 % | 99.7 % | 597 |

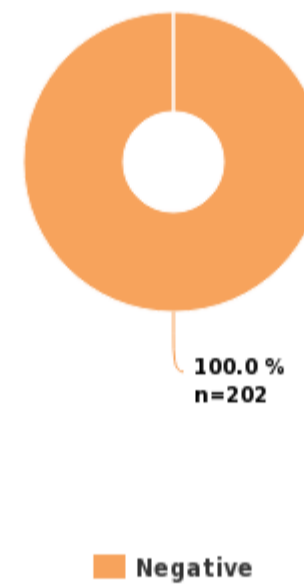
Sample S005 InfA/B NAT



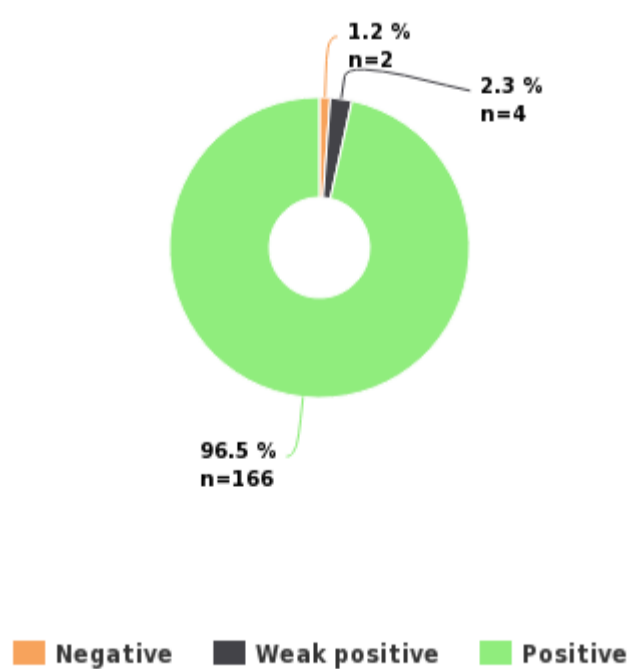
Sample S005 InfA NAT



Sample S005 InfB NAT



Sample S005 RSV NAT



| InfA/B NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|------------|----------|--------|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 20 | | - | | | | 100 % |

| | | | | | | | | |
|----------------|---|----|---|---|---|---|---|-------|
| | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 5 | | | | | | |
| | Biosynex AMPLIQUICK Respiratory Duplex | 2 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | 3 | | | | | | |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 7 | | | | | | |
| | In-house NAT | 2 | | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | 1 | | | | | | |
| Invalid result | | 1 | - | | | | | - |
| | ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 1 | | | | | | |
| Total: | | 21 | - | - | - | - | - | 100 % |

OWN DEVICE: GENEXPERT

| InfA NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 202 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 5 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 8 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 21 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 53 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITe MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| Total: | | | 202 | | 2 | 2 | 100 % | 0 % | 100 % |

OWN DEVICE: GENEXPERT

| InfB NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|----------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | <input checked="" type="radio"/> Negative | | 202 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |
| | | Abbott ID NOW Influenza A B 2 | | 39 | | | | | |
| | | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | |
| | | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | |
| | | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | |
| | | Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | | 5 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | |
| | | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | |
| | | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | |
| | | Cepheid Xpert Flu/RSV | | 8 | | | | | |
| | | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 21 | | | | | |
| | | <input checked="" type="radio"/> Cepheid Xpert Xpress Flu/RSV | | 54 | | | | | |
| | | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 11 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 7 | | | | | |
| | | Credo Diagnostics VitaPCR Influenza AB/SARS-CoV-2 assay | | 1 | | | | | |
| | | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | |
| | | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | |
| | | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | |
| | | In-house NAT | | 2 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | |
| | | PathoFinder RealAccurate Quadruplex Influenza PCR Kit | | 1 | | | | | |
| | | Roche cobas Liat Influenza A/B RSV Assay | | 12 | | | | | |
| | | Roche cobas Liat SARS-CoV-2 Influenza A/B Test | | 3 | | | | | |
| | | Roche LightMix Modular Respiratory Panel Virus | | 1 | | | | | |
| | | Sansure Biotech iPonatic SARS-CoV-2/FluA/B | | 1 | | | | | |
| | | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | |
| | | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | |
| | | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | |
| | | Seegene Anyplex II RV16 | | 1 | | | | | |
| | Total: | | 202 | | 2 | 2 | 100 % | 0 % | 100 % |

OWN DEVICE: GENEXPERT

| RSV NAT | Result | Method | Result count | Method count | Own score | Max score | Own success rate | Difference | AVR success rate |
|---------|---|---|--------------|--------------|-----------|-----------|------------------|------------|------------------|
| | Negative | | 2 | | - | | | | 0 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV | | 1 | | | | | |
| | | Mobidiag Amplidiag RESP-4 | | 1 | | | | | |
| | Weak positive | | 4 | | - | | | | 100 % |
| | | Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | | 3 | | | | | |
| | | CerTest VIASURE Flu A, Flu B RSV | | 1 | | | | | |
| | <input checked="" type="radio"/> Positive | | 166 | | 2 | 2 | 100 % | 0 % | 100 % |
| | | Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | | 1 | | | | | |
| | | Abbott Alinity m Resp-4-Plex assay | | 4 | | | | | |

| | | | | | | | | | |
|--|---|--|-----|--|---|---|-------|-------|--------|
| | Abbott ID NOW RSV | | 11 | | | | | | |
| | Altona Diagnostics FlexStar FLU Type RSV RT-PCR | | 1 | | | | | | |
| | BAG Diagnostics ViroQ SARS-FluA/B-RSV | | 1 | | | | | | |
| | Becton Dickinson BD Respiratory Viral Panel for BD MAX System | | 2 | | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel | | 1 | | | | | | |
| | BioFire Diagnostics FilmArray Respiratory panel 2 plus | | 4 | | | | | | |
| | bioMerieux Argene RSV/hMPV r-gene | | 1 | | | | | | |
| | Bruker FluoroType SARS-CoV-2/Flu/RSV | | 1 | | | | | | |
| | Cepheid Xpert Flu/RSV | | 8 | | | | | | |
| | Cepheid Xpert Xpress CoV-2/Flu/RSV plus | | 21 | | | | | | |
| | ● Cepheid Xpert Xpress Flu/RSV | | 54 | | | | | | |
| | Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | | 12 | | | | | | |
| | CerTest VIASURE Flu A, Flu B RSV | | 6 | | | | | | |
| | DiaSorin Simplexa Flu A/B RSV Direct | | 3 | | | | | | |
| | ELITechGroup Respiratory Viral ELITe MGB Panel | | 3 | | | | | | |
| | ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | | 1 | | | | | | |
| | Eurobio Scientific EurobioPlex FluCoSyn | | 3 | | | | | | |
| | In-house NAT | | 2 | | | | | | |
| | NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | | 3 | | | | | | |
| | Roche cobas Liat Influenza A/B RSV Assay | | 13 | | | | | | |
| | SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | | 2 | | | | | | |
| | Seegene Allplex Respiratory Panel 1 | | 4 | | | | | | |
| | Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | | 2 | | | | | | |
| | Seegene Anyplex II RV16 | | 1 | | | | | | |
| | Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | | 1 | | | | | | |
| | Total: | | 172 | | 2 | 2 | 100 % | 1.2 % | 98.8 % |

Report Info**PARTICIPANTS**

Altogether 186 laboratories from 16 countries participated in this EQA round.

REPORT INFO

The results are divided into groups according to the method stated by the laboratory and presented in laboratory-specific tables. Accepted results are marked with green color and laboratory's own result with a black radio button . In the scoring report you will find 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 methodic counts in the tables. If you have not reported any 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 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. The following general rules are applied:

Correct/expected test result 2/2 points
False/deviating test result 0/2 points

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.

Ct values | Sample S002

InfB NAT

| Methodics | mean | sd | min | max | outliers | n |
|---|--------------|-------------|--------------|--------------|----------|------------|
| Abbott Alinity m Resp-4-Plex assay | 31.52 | 2.20 | 29.43 | 34.40 | - | 4 |
| Abbott ID NOW Influenza A & B 2 | - | - | 34.10 | 34.10 | - | 1 |
| Altona Diagnostics FlexStar FLU Type & RSV RT-PCR | - | - | 33.70 | 33.70 | - | 1 |
| BAG Diagnostics ViroQ SARS-FluA/B-RSV | - | - | 31.58 | 31.58 | - | 1 |
| Becton Dickinson BD Respiratory Viral Panel for BD MAX System | 31.85 | 0.64 | 31.40 | 32.30 | - | 2 |
| Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | 32.80 | 1.92 | 30.00 | 34.10 | - | 4 |
| BioFire Diagnostics FilmArray Respiratory panel | - | - | 21.50 | 21.50 | - | 1 |
| BioFire Diagnostics FilmArray Respiratory panel 2 plus | - | - | 19.60 | 19.60 | - | 1 |
| Cepheid Xpert Flu/RSV | 33.08 | 0.94 | 31.90 | 34.00 | - | 5 |
| Cepheid Xpert Xpress CoV-2/Flu/RSV plus | 32.07 | 0.48 | 31.20 | 33.00 | 2 | 20 |
| Cepheid Xpert Xpress Flu/RSV | 33.34 | 1.28 | 31.40 | 36.30 | 1 | 39 |
| Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | 32.40 | 0.41 | 31.90 | 33.00 | - | 10 |
| CerTest VIASURE Flu A, Flu B & RSV | 33.29 | 0.83 | 32.13 | 34.00 | - | 5 |
| DiaSorin Simplexa Flu A/B & RSV Direct | - | - | 31.50 | 31.50 | - | 1 |
| ELITechGroup Respiratory Viral ELITe MGB Panel | 35.46 | 0.16 | 35.34 | 35.57 | - | 2 |
| ELITechGroup SARS-CoV-2 PLUS ELITe MGB Kit | - | - | 36.88 | 36.88 | - | 1 |
| In-house NAT | 34.79 | 0.13 | 34.69 | 34.88 | - | 2 |
| Mobidiag Amplidiag RESP-4 | - | - | 36.20 | 36.20 | - | 1 |
| NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | 31.24 | 1.07 | 30.48 | 32.00 | - | 2 |
| PathoFinder RealAccurate Quadruplex Influenza PCR Kit | - | - | 35.69 | 35.69 | - | 1 |
| Roche LightMix Modular Respiratory Panel Virus | - | - | 36.13 | 36.13 | - | 1 |
| SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | 33.60 | 0.18 | 33.47 | 33.72 | - | 2 |
| Seegene Allplex Respiratory Panel 1 | 37.58 | 2.26 | 34.95 | 40.38 | - | 4 |
| Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | - | - | 35.32 | 35.32 | - | 1 |
| Seegene Anyplex II RV16 | - | - | 33.29 | 33.29 | - | 1 |
| All | 33.33 | 1.86 | 29.43 | 40.38 | 2 | 113 |

InfA/B NAT

| Methodics | mean | sd | min | max | outliers | n |
|---|--------------|-------------|--------------|--------------|----------|-----------|
| Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 32.74 | 2.35 | 29.87 | 35.17 | - | 5 |
| Eurobio Scientific EurobioPlex FluCoSyn | - | - | 34.53 | 34.53 | - | 1 |
| ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 34.44 | 0.94 | 32.74 | 35.40 | - | 7 |
| Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | - | - | 36.48 | 36.48 | - | 1 |
| All | 33.99 | 1.82 | 29.87 | 36.48 | - | 14 |

Ct values | Sample S003

InfA NAT

| Methodics | mean | sd | min | max | outliers | n |
|---|--------------|-------------|--------------|--------------|----------|------------|
| Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | - | - | 31.10 | 31.10 | - | 1 |
| Abbott Alinity m Resp-4-Plex assay | 23.73 | 1.56 | 22.23 | 25.80 | - | 4 |
| Altona Diagnostics FlexStar FLU Type & RSV RT-PCR | - | - | 26.97 | 26.97 | - | 1 |
| BAG Diagnostics ViroQ SARS-FluA/B-RSV | - | - | 24.26 | 24.26 | - | 1 |
| Becton Dickinson BD Respiratory Viral Panel for BD MAX System | 24.20 | 1.27 | 23.30 | 25.10 | - | 2 |
| Becton Dickinson BD SARS-CoV-2/Flu for BD MAX System | 27.33 | 3.40 | 24.00 | 30.40 | - | 4 |
| BioFire Diagnostics FilmArray Respiratory panel | - | - | 17.50 | 17.50 | - | 1 |
| BioFire Diagnostics FilmArray Respiratory panel 2 plus | - | - | 17.20 | 17.20 | - | 1 |
| Cepheid Xpert Flu/RSV | 24.82 | 0.77 | 24.00 | 26.00 | - | 5 |
| Cepheid Xpert Xpress CoV-2/Flu/RSV plus | 23.29 | 1.38 | 22.30 | 28.10 | 1 | 20 |
| Cepheid Xpert Xpress Flu/RSV | 25.11 | 2.06 | 22.20 | 31.00 | - | 40 |
| Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | 23.28 | 1.38 | 22.30 | 26.90 | - | 10 |
| CerTest VIASURE Flu A, Flu B & RSV | 27.60 | 1.89 | 25.70 | 30.40 | - | 5 |
| Credo Diagnostics VitaPCR Influenza A&B/SARS-CoV-2 assay | - | - | 40.00 | 40.00 | - | 1 |
| DiaSorin Simplexa Flu A/B & RSV Direct | 28.50 | 5.37 | 24.70 | 32.30 | - | 2 |
| ELITechGroup Respiratory Viral ELITE MGB Panel | 29.74 | 0.55 | 29.17 | 30.27 | - | 3 |
| ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | - | - | 33.76 | 33.76 | - | 1 |
| In-house NAT | 33.55 | 3.45 | 31.11 | 35.99 | - | 2 |
| Mobidiag Amplidiag RESP-4 | - | - | 31.21 | 31.21 | - | 1 |
| NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | 23.77 | 1.32 | 22.83 | 24.70 | - | 2 |
| PathoFinder RealAccurate Quadruplex Influenza PCR Kit | - | - | 28.25 | 28.25 | - | 1 |
| Roche LightMix Modular Respiratory Panel Virus | - | - | 33.55 | 33.55 | - | 1 |
| Sansure Biotech iPonatic SARS-CoV-2/FluA/B | - | - | 37.50 | 37.50 | - | 1 |
| SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | 25.99 | 2.69 | 24.09 | 27.89 | - | 2 |
| Seegene Allplex Respiratory Panel 1 | 28.14 | 0.80 | 27.00 | 28.89 | - | 4 |
| Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | 29.01 | 0.14 | 28.91 | 29.11 | - | 2 |
| Seegene Anyplex II RV16 | - | - | 23.88 | 23.88 | - | 1 |
| All | 25.32 | 2.99 | 17.20 | 33.76 | 3 | 119 |

InfA/B NAT

| Methodics | mean | sd | min | max | outliers | n |
|---|--------------|-------------|--------------|--------------|----------|-----------|
| Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 26.73 | 3.31 | 22.00 | 30.19 | - | 5 |
| Biosynex AMPLIQUICK Respiratory Duplex | 30.82 | 3.38 | 28.43 | 33.21 | - | 2 |
| Eurobio Scientific EurobioPlex FluCoSyn | 29.36 | 1.66 | 27.71 | 31.02 | - | 3 |
| ID-Solutions ID SARS-CoV-2 / Influenza Triplex | 25.47 | 0.70 | 24.07 | 26.00 | - | 7 |
| In-house NAT | 29.94 | 1.29 | 29.02 | 30.85 | - | 2 |
| Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | - | - | 28.97 | 28.97 | - | 1 |
| All | 27.52 | 2.75 | 22.00 | 33.21 | - | 20 |

Ct values | Sample S004

RSV NAT

| Methodics | mean | sd | min | max | outliers | n |
|---|--------------|-------------|--------------|--------------|----------|------------|
| Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | - | - | 30.60 | 30.60 | - | 1 |
| Abbott Alinity m Resp-4-Plex assay | 25.00 | 1.49 | 23.91 | 27.10 | - | 4 |
| Altona Diagnostics FlexStar FLU Type & RSV RT-PCR | - | - | 26.46 | 26.46 | - | 1 |
| Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 27.55 | 0.74 | 26.70 | 27.98 | - | 3 |
| BAG Diagnostics ViroQ SARS-FluA/B-RSV | - | - | 24.73 | 24.73 | - | 1 |
| Becton Dickinson BD Respiratory Viral Panel for BD MAX System | 27.85 | 0.78 | 27.30 | 28.40 | - | 2 |
| BioFire Diagnostics FilmArray Respiratory panel | - | - | 12.90 | 12.90 | - | 1 |
| BioFire Diagnostics FilmArray Respiratory panel 2 plus | - | - | 12.10 | 12.10 | - | 1 |
| bioMerieux Argene RSV/hMPV r-gene | - | - | 28.04 | 28.04 | - | 1 |
| Cepheid Xpert Flu/RSV | 28.68 | 1.06 | 27.20 | 29.60 | - | 6 |
| Cepheid Xpert Xpress CoV-2/Flu/RSV plus | 27.25 | 1.36 | 26.40 | 32.40 | 1 | 18 |
| Cepheid Xpert Xpress Flu/RSV | 28.81 | 1.81 | 26.00 | 34.80 | 1 | 41 |
| Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | 27.48 | 1.65 | 26.40 | 32.00 | - | 10 |
| CerTest VIASURE Flu A, Flu B & RSV | 27.24 | 0.90 | 26.10 | 28.38 | - | 5 |
| DiaSorin Simplexa Flu A/B & RSV Direct | 30.57 | 3.01 | 27.10 | 32.50 | - | 3 |
| ELITechGroup Respiratory Viral ELITE MGB Panel | 28.15 | 1.03 | 26.98 | 28.90 | - | 3 |
| ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | - | - | 33.09 | 33.09 | - | 1 |
| Eurobio Scientific EurobioPlex FluCoSyn | 26.82 | 0.71 | 26.05 | 27.45 | - | 3 |
| In-house NAT | 32.13 | 3.24 | 29.84 | 34.42 | - | 2 |
| Mobidiag Amplidiag RESP-4 | - | - | 31.29 | 31.29 | - | 1 |
| NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | 24.27 | 0.62 | 23.83 | 24.70 | - | 2 |
| SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | 26.57 | 0.75 | 26.04 | 27.10 | - | 2 |
| Seegene Allplex Respiratory Panel 1 | 30.44 | 2.33 | 27.25 | 32.83 | - | 4 |
| Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | 28.18 | 0.59 | 27.76 | 28.60 | - | 2 |
| Seegene Anyplex II RV16 | - | - | 24.88 | 24.88 | - | 1 |
| Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | - | - | 29.25 | 29.25 | - | 1 |
| All | 28.27 | 2.26 | 23.83 | 36.10 | 2 | 120 |

Ct values | Sample S005

RSV NAT

| Methodics | mean | sd | min | max | outliers | n |
|---|--------------|-------------|--------------|--------------|----------|------------|
| Abacus Diagnostica GenomEra SARS-CoV-2, Flu A/B + RSV 2.0 | - | - | 31.85 | 31.85 | - | 1 |
| Abbott Alinity m Resp-4-Plex assay | 28.68 | 1.95 | 26.91 | 30.70 | - | 4 |
| Altona Diagnostics FlexStar FLU Type & RSV RT-PCR | - | - | 30.55 | 30.55 | - | 1 |
| Applied Biosystems TaqPath COVID-19, Flu A/B, RSV Combo Kit | 31.76 | 0.35 | 31.42 | 32.11 | - | 3 |
| BAG Diagnostics ViroQ SARS-FluA/B-RSV | - | - | 29.19 | 29.19 | - | 1 |
| Becton Dickinson BD Respiratory Viral Panel for BD MAX System | 29.70 | 1.84 | 28.40 | 31.00 | - | 2 |
| BioFire Diagnostics FilmArray Respiratory panel | - | - | 16.50 | 16.50 | - | 1 |
| BioFire Diagnostics FilmArray Respiratory panel 2 plus | - | - | 14.90 | 14.90 | - | 1 |
| bioMerieux Argene RSV/hMPV r-gene | - | - | 31.07 | 31.07 | - | 1 |
| Cepheid Xpert Flu/RSV | 30.45 | 0.92 | 29.20 | 31.60 | - | 6 |
| Cepheid Xpert Xpress CoV-2/Flu/RSV plus | 29.59 | 2.74 | 21.90 | 35.50 | - | 18 |
| Cepheid Xpert Xpress Flu/RSV | 30.62 | 1.23 | 28.70 | 34.60 | 1 | 41 |
| Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV | 29.73 | 0.77 | 29.00 | 31.00 | - | 10 |
| CerTest VIASURE Flu A, Flu B & RSV | 30.76 | 1.19 | 29.00 | 31.90 | - | 5 |
| DiaSorin Simplexa Flu A/B & RSV Direct | 30.27 | 3.71 | 26.10 | 33.20 | - | 3 |
| ELITechGroup Respiratory Viral ELITE MGB Panel | 31.91 | 1.44 | 30.27 | 32.98 | - | 3 |
| ELITechGroup SARS-CoV-2 PLUS ELITE MGB Kit | - | - | 36.07 | 36.07 | - | 1 |
| Eurobio Scientific EurobioPlex FluCoSyn | 30.48 | 1.78 | 28.48 | 31.89 | - | 3 |
| In-house NAT | 33.40 | 0.92 | 32.75 | 34.05 | - | 2 |
| NeuMoDx Flu A-B/RSV/SARS-CoV-2 Vantage Test Strip | 27.74 | 0.93 | 27.08 | 28.40 | - | 2 |
| SD Biosensor STANDARD M10 Flu/RSV/SARS-CoV-2 | 29.73 | 0.37 | 29.47 | 29.99 | - | 2 |
| Seegene Allplex Respiratory Panel 1 | 32.64 | 1.54 | 30.42 | 33.98 | - | 4 |
| Seegene Allplex SARS-CoV-2/FluA/FluB/RSV Assay | 30.92 | 0.89 | 30.29 | 31.55 | - | 2 |
| Seegene Anyplex II RV16 | - | - | 29.37 | 29.37 | - | 1 |
| Vitassay qPCR Flu + RSV + SARS CoV-2 N1/2 | - | - | 32.70 | 32.70 | - | 1 |
| All | 30.59 | 1.79 | 26.10 | 36.70 | 3 | 119 |

External Quality Assessment Scheme

Influenza virus A+B and RS virus, nucleic acid detection Round 1, 2023

Specimens

Samples of this EQA round were artificial nasopharyngeal samples. Based on the pre-testing and the results obtained in the round, the samples were homogeneous, stable and suitable for the external quality assessment scheme. The materials were sent without temperature control packaging.

The expected results were as follows:

Sample S001 (LQ774923011)
Negative, IC C_t 30.25

Sample S002 (LQ774923012)
Influenza virus B/Brisbane/60/2008 (Victoria-like), C_t 33.85, IC C_t 30.45

Sample S003 (LQ774923013)
Influenza virus A/Clinical isolate 2022 (H3N1), C_t 25.70/30.15, IC C_t 33.03

Sample S004 (LQ774923014)
RS virus A (YV1/2017), C_t 26.68, IC C_t 30.30

Sample S005 (LQ774923015)
RS virus B (338/2012), C_t 29.62, IC C_t 29.81

Pre-test methods: Cepheid Xpert Xpress SARS-CoV-2/Flu/RSV, Seegene Allplex Respiratory Panel 1 (C_t values) and laboratory developed RT-PCR.

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 – Expert

The most challenging sample on this EQA round was S002 with influenza virus B and it was relatively most difficult for tests without differentiation between A and B types. Delightfully, the recent influenza virus A strain was very well detected by all participants and methods. Of note, the average C_t values reported by the participants were very close to pre-test values for all positive samples. The C_t values obtained by different tests are not always directly comparable, but with the aid of the now introduced table, each participant can assess the own test's relative performance as compared to others.

Exceptions in scoring

Unclear/invalid test results were excluded from the scoring in sample S001, and also in samples S004 and S005 for tests that do not include RS virus.

End of report

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2023-03-23

FINAL REPORT

Product no. 5670

Subcontracting: Sample preparation,
sample pretesting

| | |
|------------------|------------|
| Samples sent | 2023-02-07 |
| Round closed | 2023-03-06 |
| Expected results | 2023-03-10 |
| Final report | 2023-03-23 |

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

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