PapilloCheck® Automated Processing

CX™ NIMBUS® and CX™ STARlet Platforms - smart. efficient. accurate.

Papillomavirus (HPV) is found in virtually all cases of cervical cancer. 1-4. HPV testing is currently being investigated as the primary tool in cervical cancer 5. Therefore, it is important to have a rapid and reliable diagnostic tool for the simultaneous detection and genotyping of 24 HPV types, the result from a PapilloCheck® analysis can be used for the classification of women according to their relative risk for cancer progression from mild dysplasia to cancer 5. Therefore, it has the potential to improve the accuracy of triage, help to clarify the status of a patient in the course of HPV vaccination. Therefore, it has the potential to improve the accuracy of triage, help to clarify the status of a patient in the course of HPV vaccination. Therefore, it has the potential to improve the accuracy of triage, help to clarify the status of a patient in the course of HPV vaccination. Therefore, it has the potential to improve the accuracy of triage, help to clarify the status of a patient in the course of HPV vaccination.

PapilloCheck® was validated according to international guidelines for HPV high-risk and cervical cancer sensitivity and specificity as well as reproducibility.

As a result, these easy-to-use PapilloCheck® automated genotyping assays with the potential for high throughput of specimens in a clinical setting.

PapilloCheck® can be processed manually as well as on a robotic system, developed specifically for the PapilloCheck® technology which allows for optimal sampling throughout a minimize manual handling.

Your Power for Health

PapilloCheck® HPV Genotyping

Fast and Reliable Genotyping of 24 Human Papillomavirus Types

Due to the simultaneous identification of 24 different HPV types, the result from a PapilloCheck® analysis allows for the characterization of multiple infections. It can improve triage, specifically whenonions for HPV high risk and cervical cancer sensitivity and specificity as well as reproducibility.

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Automated Solutions for HPV Genotyping

CX™ NIMBUS® and CX™ STARlet

powered by HAMPTON
CX™ NIMBUS® platform

CX™ NIMBUS® enables time-consuming pipetting steps that support efficient use of valuable reagent volumes by streamlining the manual workflow. This reduces processing time and costs, making it a cost-effective solution for recombinant workflow.

CX™ NIMBUS® includes four pipetting channels, a CX™ nudge system for a fast and safe handling of plates, a heater/shaker, magnetic separator and a cooling system.

CX™ NIMBUS® plus additionally integrates a hybridisation carrier.

Workflow Timetable

<table>
<thead>
<tr>
<th>Step</th>
<th>CX™ NIMBUS® plus</th>
<th>CX™ STARlet plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction of HPV samples</td>
<td>135 min</td>
<td>165 min</td>
</tr>
<tr>
<td>Pre-PCR</td>
<td>15 min</td>
<td>20 min</td>
</tr>
<tr>
<td>Hybridisation preparation</td>
<td>25 min</td>
<td>30 min</td>
</tr>
<tr>
<td>Hybridisation incubation</td>
<td>15 min</td>
<td>25 min</td>
</tr>
<tr>
<td>Washing &amp; drying</td>
<td>15 min</td>
<td>30 min</td>
</tr>
<tr>
<td>PCR</td>
<td>180 min</td>
<td>180 min</td>
</tr>
<tr>
<td>Post-processing</td>
<td>25 min</td>
<td>30 min</td>
</tr>
<tr>
<td>Total analysis time (TAT)</td>
<td>453 min</td>
<td>566 min</td>
</tr>
<tr>
<td>Hands-on time (total)</td>
<td>90 min</td>
<td>120 min</td>
</tr>
<tr>
<td>Walk-away time (total)</td>
<td>476 min</td>
<td>596 min</td>
</tr>
</tbody>
</table>

For more information on CX™ NIMBUS®, please contact us: support.dx@gbo.com

CX™ NIMBUS® Specifications

- Power supply: 115V~/230V~
- Maximum power consumption: ≤ 600 W
- Weight desk: approx. 90 kg
- Dimensions desk (W x H x D): 1124 x 850 x 795 mm
- Weight approx: 140 kg
- Length: 1028 mm (with loading desk), 1010 mm (without loading desk)

CX™ STARlet Specifications

- Power supply: 115V~/230V~
- Maximum power consumption: ≤ 600 W
- Weight desk: approx. 98,6 kg
- Dimensions desk (W x H x D): 1046 x 831 x 709 mm
- Length: 999 mm
- Height: 1110 mm
- Width: 709 mm

CX™ STARlet platform

CX™ STARlet is the ultimate solution to optimise your HPV routine. The platform performs all pipetting steps and is additionally integrated with an on-deck thermal cycler from INHECO. This reduces hands-on time and increases productivity, thus providing the ideal choice for laboratories who want to be more efficient and profitable within their HPV routine.

CX™ STARlet plus is delivered with an additional hybridisation carrier.

Manual and automated workflow

HPV detection and genotyping with PapillomCheck®

For more information on CX™ STARlet and CX™ STARlet plus, please contact us: support.dx@gbo.com

PapillomCheck® HPV Genotyping - manual workflow

1 Sample Collection
2 DNA Extraction
3 PCR
4 Hybridisation
5 Washing
6 Scanning
7 Evaluation

Sample collection

DNA extraction

PCR

Hybridisation

Washing & drying

Scanning

Evaluation

PapillomCheck® HPV Genotyping - automated workflow

For more information on CX™ NIMBUS® and CX™ STARlet, please contact us: support.dx@gbo.com

PapillomCheck® HPV Genotyping - simultaneous processing of 48 samples

Sample Collection
DNA Extraction
PCR
Hybridisation
Washing
Scanning
Evaluation

For more information on CX™ NIMBUS® plus and CX™ STARlet plus, please contact us: support.dx@gbo.com

PapillomCheck® HPV Genotyping - simultaneous processing of 96 samples

Sample Collection
DNA Extraction
PCR
Hybridisation
Washing
Scanning
Evaluation

For more information on CX™ STARlet plus, please contact us: support.dx@gbo.com