

# QIASymphony AS Application Sheet

---

## QIASymphony® AS application *mericon*® *Campylobacter* spp QIAGEN-PCR-96 V1

This document contains detailed information about the *mericon* *Campylobacter* spp QIAGEN-PCR-96 V1 Assay Parameter Set, including information about which adapters, holders, reagents, and consumables are required for loading the QIASymphony AS worktable. The *mericon* *Campylobacter* spp QIAGEN-PCR-96 V1 application is intended for use with QIASymphony software version 4.0 (or higher) on the QIASymphony AS, in combination with the *mericon* *Campylobacter* spp Kit, with labware package SOW-516.

The QIASymphony AS and *mericon* *Campylobacter* spp QIAGEN-PCR-96 V1 application are intended for molecular biology applications in food, animal feed, and pharmaceutical product testing. These products are not intended for the diagnosis, prevention, or treatment of a disease.

### Assay information

Release information	Details
Assay Parameter Set	<i>mericon</i> <i>Campylobacter</i> spp QIAGEN-PCR-96 V1
Assay Parameter Set filename	APS_ <i>mericon</i> _Campylobacter_spp_QIAGEN-PCR-96_V1.xml
Assay Definition	<i>mericon</i> <i>Campylobacter</i> spp QIAGEN-PCR-96 V1
Assay Definition filename	AD_ <i>mericon</i> _Campylobacter_spp_QIAGEN-PCR-96_V1.xml
Application package	<i>mericon</i> 96-well
Release status	For molecular biology applications

February 2013



---

Sample & Assay Technologies

Process information	Details
Sample input material	Eluate
Sample volume	Minimum of 85 $\mu$ l
Master mix volume	10 $\mu$ l
Template volume	10 $\mu$ l
Number of assay positions	3–96
Runtime*	For 24 assay positions, approximately 8 min For 96 assay positions, approximately 26 min

\* Assay run with no replicates and manual preparation of master mix.

## Worktable setup

For more detailed information about worktable setup, see the loading information file, the mericon Automated *Pathogen Detection Workflow Handbook*, and the *QIASymphony SP/AS User Manual — Operating the QIASymphony AS*.

## Adapters and reagent holders

Adapters should be cooled to 4°C before loading them on the QIASymphony AS.

Rack/reagent holder	Name	Number required*
Sample rack(s)	Elution Microtube Rack QS <sup>†</sup>	1
Reagent holder(s)	Reagent holder 1 QS	1
Assay rack(s)	Cooling Adapter, PCR, v2, Qsym <sup>‡</sup>	1

\* Calculated for an assay run with 96 output positions.

<sup>†</sup> Recommended sample rack. For a full list of sample racks that are compatible with your sample preparation protocol, visit [www.qiagen.com/goto/QIASymphony](http://www.qiagen.com/goto/QIASymphony).

<sup>‡</sup> Default assay rack. The default assay rack can be modified in the Assay Parameter Set using the Process Definition Editor of the QIASymphony Management Console.

## Consumables

Consumables	Name on touchscreen	For use with adapter/reagent holder
MicroAmp® Optical 96-Well Reaction Plate	ABI#N8010560*PCR96 Optical	Cooling Adapter, PCR, v2, Qsym
Tubes, conical, 2 ml, Qsym AS (500) <sup>†</sup>	QIA#997102*T2.0 ScrewSkirt <sup>‡</sup>	Reagent holder 1 QS
Elution Microtubes CL (24 x 96) <sup>§</sup>	QIA#19588*EMTR	Elution Microtube Rack QS

\* Indicates labware that can be cooled using a cooling adapter with bar code.

<sup>†</sup> For assay controls and assay standards.

<sup>‡</sup> The suffix "(m)" in the touchscreen indicates tubes that are defined for reagents that form a meniscus, such as the master mix.

<sup>§</sup> Recommended sample tubes. For a full list of sample tubes that are compatible with your sample preparation protocol, visit [www.qiagen.com/goto/QIASymphony](http://www.qiagen.com/goto/QIASymphony).

## Additional consumables

Consumables	Name on touchscreen
Filter-Tips, 200 µl (1024)	200 µl
Filter-Tips, 50 µl (1024)	50 µl

## Parameters that can be modified

All parameters in the *mericon* Campylobacter spp QIAGEN-PCR-96 V1 Assay Parameter Set can be modified using the "Process Definition" editor tool of the QIASymphony Management Console and some parameters can also be modified using the touchscreen. Tables of parameters are listed in the order in which they appear in the screens of the "Process Definition" editor tool.

---

## Application

Parameter	Default selection	Options
Application package	<i>mericon</i> 96-well	See drop-down menu in "Select Package" field, insert "New Package", or select "Others"

## Assay definition

Parameter	Default selection	Options
Assay	<i>mericon</i> Campylobacter spp QIAGEN-PCR-96 V1	Select alternative assay from list
Use ready-to-use master mix?*	"Yes"	"Yes" or "No"

\* Can also be modified using the touchscreen.

## Sample input

Parameter	Default selection	Options
Number of sample replicates*	1	Up to 50 <sup>†</sup>
Do samples contain an assay specific control?*	"No"	"Yes" or "No"
Number of EC+ replicates*	1	Up to 50 <sup>†</sup>
Number of EC- replicates*	1	Up to 50 <sup>†</sup>

EC: Extraction control.

\* Can also be modified using the touchscreen.

<sup>†</sup> It is possible to select more than 50 replicates, but this is not recommended because it may lead to reduced performance.

## Assay controls

Parameter	Default selection	Options
Number of positive assay controls*	1	Press "Modify" to add positive assay control(s)
Number of positive control replicates*	1	Up to 50 <sup>†</sup>
Number of NTC	1	Up to 50 <sup>†</sup>
Number of NTC replicates	1	Up to 50 <sup>†</sup>
Number of NTC with IC replicates*	0	Up to 50 <sup>†</sup>
Number of NTC without IC replicates*	0	Up to 50 <sup>†</sup>
Concentration*	No default	Can be defined
Unit	No default	Can be defined
Assay controls on all assay racks?	Deselected	Selected or deselected

NTC: No-template control.

\* Can also be modified using the touchscreen.

<sup>†</sup> It is possible to select more than 50 replicates, but this is not recommended as it may lead to reduced performance.

## Assay output

Parameter	Default selection	Options
Assay rack*	Cooling Adapter, PCR, v2, Qsym	Available options depend on the output format
Cycler file format	ABI	Available options depend on the output format
Dyes	No default	Enter dye name or dye combinations

\* Can also be modified using the touchscreen.

---

## Additional information

Parameter	Default selection	Options
Read only	Deselected	Selected or deselected
Comment	No comment	Comment can be inserted
Unique ID	No ID	Can be inserted
APS name	<i>mericon</i> Campylobacter spp QIAGEN-PCR-96 V1	Can be edited
APS filename	APS_ <i>mericon</i> _Campylobacter_spp_QIAGEN-PCR-96_V1.xml	Can be edited
Panels	No panels	Can be added

## Example assay run

This section provides example reagent volumes and consumables consumption for an assay run with the following specifications:

- 22 or 94 templates
- One positive control
- One no-template control (NTC)
- Manually prepared master mix

**Note:** Filter-tip consumption can be affected by some processes on the QIASymphony AS (e.g., liquid-level detection).

## Reagent volumes

Reagent	Volume ( $\mu$ l) for 24 reactions	Volume ( $\mu$ l) for 96 reactions
Master mix	240	960
Positive control	10	10
NTC	10	10

---

## Consumables consumption

Consumable	Number for 24 reactions	Number for 96 reactions
Filter-Tips, 200 $\mu$ l	1	1
Filter-Tips, 50 $\mu$ l	24	96
Tip Disposal Bags	1	1

## Ordering information

Product	Contents	Cat. no.
<i>mericon</i> Campylobacter spp Kit (96)*	For 96 reactions: PCR Assay Campylobacter spp, Positive Control, Multiplex PCR Master Mix, QuantiTect® Nucleic Acid Dilution Buffer, RNase-free water, 50x ROX Dye Solution	290035
<i>mericon</i> Campylobacter spp Kit (24)*	For 24 reactions: PCR Assay Campylobacter spp, Positive Control, Multiplex PCR Master Mix, QuantiTect Nucleic Acid Dilution Buffer, RNase-free water, 50x ROX Dye Solution	290033
Reagent holder 1 QS	Adapter for holding 18 x 2 ml conical tubes, and 6 x 5 ml conical tubes	9018090
Elution Microtube Rack QS	Cooling adapter for EMT racks	9018086
Elution Microtubes CL (24 x 96)	24 Elution Microtube Racks	19588
Cooling Adapter, PCR, v2, Qsym	Cooling adapter for PCR plates	9020732
Tubes, conical, 2 ml, Qsym AS (500)	Conical tubes (2 ml) for holding reagent	997102
Filter-Tips, 200 µl (1024)	Disposable Filter-Tips, racked (8 x 128). For use with the QIAcube® and the QIASymphony SP/AS instruments	990332
Filter-Tips, 50 µl (1024)	Disposable Filter-Tips, racked (8 x 128). For use with the QIASymphony AS	997120
Tip Disposal Bags (15)	Tip disposal bags for use with the QIASymphony SP/AS instruments	9013395

\* Visit [www.qiagen.com/products/mericonpathogendetectionassays.aspx](http://www.qiagen.com/products/mericonpathogendetectionassays.aspx) for more detailed information about the *mericon* Pathogen Detection Kits. Please note that the number of reactions will be up to 10% lower than indicated on the kit label when *mericon* Campylobacter spp Kits are used with automated assay setup. This is required in order to guarantee process safety and optimal performance.



---

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at [www.qiagen.com](http://www.qiagen.com) or can be requested from QIAGEN Technical Services or your local distributor.

Trademarks: QIAGEN®, QIAcube®, QIASymphony®, *mericon*®, QuantiTect® (QIAGEN Group); MicroAmp® (Life Technologies Corporation). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

© 2009–2013 QIAGEN, all rights reserved.

**Australia** = 1-800-243-800

**Austria** = 0800-281011

**Belgium** = 0800-79612

**Brazil** = 0800-557779

**Canada** = 800-572-9613

**China** = 800-988-0325

**Denmark** = 80-885945

**Finland** = 0800-914416

**France** = 01-60-920-930

**Germany** = 02103-29-12000

**Hong Kong** = 800 933 965

**India** = 1-800-102-4114

**Ireland** = 1800 555 049

**Italy** = 800-787980

**Japan** = 03-6890-7300

**Korea (South)** = 1544 7145

**Luxembourg** = 8002 2076

**Mexico** = 01-800-7742-436

**The Netherlands** = 0800 0229592

**Norway** = 800-18859

**Singapore** = 1800-742-4368

**Spain** = 91-630-7050

**Sweden** = 020-790282

**Switzerland** = 055-254-22-11

**Taiwan** = 0080-665-1947

**UK** = 0808-234-3665

**USA** = 800-426-8157

[www.qiagen.com](http://www.qiagen.com)



---

Sample & Assay Technologies