

# QIASymphony AS Application Sheet

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## QIASymphony® AS application Cortal® Residual RGQ-5-plex-HRM RD72 V2

This document contains detailed information about the Cortal Residual RGQ-5-plex-HRM RD72 V2 Assay Parameter Set, including information about which adapters, holders, reagents, and consumables are required for loading the QIASymphony AS worktable. The Cortal Residual RGQ-5-plex-HRM RD72 V2 application is intended for use with QIASymphony software version 4.0 (or higher) on the QIASymphony AS, in combination with the Cortal CHO Detection Kit, with labware package SOW-516.

The QIASymphony AS and the Cortal Residual RGQ-5-plex-HRM RD72 V2 application are intended for molecular biology applications in 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	Cortal Residual RGQ-5-plex-HRM RD72 V2
Assay Parameter Set filename	APS_Cortal_Residual_RGQ-5-plex-HRM_RD72_V2.xml
Assay Definition	Cortal_Residual_RGQ-5-plex-HRM_RD72_V2
Assay Definition filename	AD_Cortal_Residual_RGQ-5-plex-HRM_RD72_V2.xml
Application package	Cortal RGQ 5 plex HRM
Release status	For molecular biology applications in pharmaceutical product testing

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Process information	Details
Sample input material	Eluate
Sample volume	Minimum of 60 $\mu$ l
Master mix volume	17.5 $\mu$ l
Template volume	7.5 $\mu$ l
Number of assay positions	3–144
Runtime*	For 24 assay positions, approximately 13 min For 72 assay positions, approximately 36 min

\* Assay run with no replicates and preparation of master mix by the instrument.

## Worktable setup

For more detailed information about worktable setup, see the loading information file, the *Certal Residual DNA Detection Handbook*, and the *QIAasymphony SP/AS User Manual — Operating the QIAasymphony AS*.

## Adapters and reagent holders

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

Rack/reagent holder	Name	Number required <sup>†</sup>
Sample rack(s)	Elution Microtube Rack QS <sup>‡</sup>	1
Reagent holder(s)	Reagent holder 1 QS	1
Assay rack(s)	Rotor-Disc <sup>®</sup> 72 QS <sup>§¶</sup>	1

<sup>†</sup> Calculated for an assay run with 72 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/QIAasymphony](http://www.qiagen.com/goto/QIAasymphony).

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

<sup>¶</sup> Ordering name is Rotor-Disc 72 Loading Block. Rotor-Disc 72 QS is the combination of Rotor-Disc 72 Loading Block and Rotor-Disc Adapter Base Unit QS. The Rotor-Disc Adapter Base Unit QS can hold up to two Rotor-Disc 72 Loading Blocks.

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## Consumables

Consumables	Name on touchscreen	For use with adapter/reagent holder
Rotor-Disc 72	QIA#981303 *RotorDisc72	Rotor-Disc 72 QS
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

<sup>†</sup> For ready-to-use master mix, assay standards, and assay controls.

<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 $\mu$ l (1024)	200 $\mu$ l
Filter-Tips, 50 $\mu$ l (1024)	50 $\mu$ l

## Parameters that can be modified

All parameters in the Certal Residual RGQ-5-plex-HRM RD72 V2 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.

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## Application

Parameter	Default selection	Options
Application package	Certal RGQ 5 plex HRM	See drop-down menu in "Select Package" field, insert "New Package", or select "Others"

## Assay definition

Parameter	Default selection	Options
Assay	Certal_Residual_RGQ-5-plex-HRM_RD72_V2	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 <sup>†</sup>	1	Up to 50 <sup>‡</sup>
Do samples contain an assay specific control? <sup>†</sup>	"No"	"Yes" or "No"
Number of EC+ replicates <sup>†</sup>	1	Up to 50 <sup>‡</sup>
Number of EC- replicates <sup>†</sup>	1	Up to 50 <sup>‡</sup>

EC: Extraction control.

<sup>†</sup> 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.

† 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 <sup>‡</sup>	Rotor-Disc 72 QS	Available options depend on the output format
Cycler file format	Rotor-Gene <sup>®</sup> Q	Available options depend on the output format
Dyes	No default	Enter dye name or dye combinations

‡ Can also be modified using the touchscreen.

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## 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	Certal_Residual_RGQ-5-plex-HRM_RD72_V2	Can be edited
APS filename	APS_Certal_Residual_RGQ-5-plex- HRM_RD72_V2.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 70 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 72 reactions
Master mix	512	1403
Positive control	29	29
NTC	29	29

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## Consumables consumption

Consumable	Number for 24 reactions	Number for 72 reactions
Filter-Tips, 200 $\mu$ l	1	1
Filter-Tips, 50 $\mu$ l	24	72
Tip Disposal Bags	1	1

## Ordering information

Product	Contents	Cat. no.
Certal CHO Detection Kit (100)*	Reagents and controls for 100 x 25 $\mu$ l reactions: 1.25 ml Certal ResDNA PCR Master Mix, 100 $\mu$ l Uracil-N-Glycosylase (1 U/ $\mu$ l), Certal Internal Control DNA and Assay, CHO DNA Positive Control and CHO-Assay, 210 $\mu$ l High ROX dye solution, 210 $\mu$ l ROX dye solution, 3 ml Nucleic Acid Dilution Buffer, 1.9 ml TE Buffer	211822
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
Adapter 2 x Rotor-Disc, Qsym	Adapter for holding up to 2 x Rotor-Disc 72 on Rotor-Disc 72 Loading Blocks	9242204
Rotor-Disc 72 Loading Block	Aluminum block for manual and automated reaction setup in Rotor-Disc 72 discs	9018910
Rotor-Disc 72 (240)	10 x 24 individually wrapped discs	981303
Rotor-Disc Heat Sealing Film (600)	10 x 60 films for sealing the Rotor-Disc 72 discs	981604
Tubes, conical, 2 ml, Qsym AS (500)	Conical tubes (2 ml) for holding reagent	997102
Filter-Tips, 200 $\mu$ l (1024)	Disposable Filter-Tips, racked (8 x 128). For use with the QIAcube <sup>®</sup> and the QIASymphony SP/AS instruments	990332
Filter-Tips, 50 $\mu$ l (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/certalresidualdnadetectionkits.aspx](http://www.qiagen.com/products/certalresidualdnadetectionkits.aspx) for more detailed information about the Certal CHO Detection Kit. Please note that the number of reactions will be up to 10% lower than indicated on the kit label when the Certal CHO Detection Kit is used with automated assay setup. This is required in order to guarantee process safety and optimal performance.



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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.

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