RNeasy® 96 QIAcube® HT Total RNA Cell Protocol
For use with RNeasy 96 QIAcube HT Kit and QIAcube HT Plasticware

This protocol is intended for the automated purification of RNA from cells using the QIAcube HT instrument. The procedure yields high-quality RNA that performs well in RT-PCR and other downstream reactions. The RNeasy 96 QIAcube HT Kit combines the selective binding properties of a silica-based membrane with a high-throughput 96-well format, and is designed for fully automated, simultaneous processing of 24–96 samples on the QIAcube HT instrument.

Q Protocol description:

- Run file: **RNeasy 96 QIAcube HT total RNA Cell V1.qsp**

- Purification of RNA using silica technology

- Automated processing using vacuum filtration for bind, wash, and elute steps

Protocol specifications

Specification	Description
Number of samples	24–96 samples (to be processed in increments of 8)
Sample input volume	Up to 5×10^5 cells, homogenized in 140 µl Buffer RLT
Elution volume	110 µl
Duration	96 samples in approximately 93 minutes 24 samples in approximately 54 minutes Each additional 8 samples extend the processing time by 5 minutes

Worktable setup

For detailed protocol and worktable setup information, see the pre-run report and the *RNeasy 96 QIAcube HT Handbook.*

Reagents

Note: Each Reagent Trough must be loaded on the worktable in a Reagent Trough Adapter.

Reagent	Plasticware	Worktable position
Wash Buffer RWT	Reagent Trough 170 ml	R1
Wash Buffer RPE	Reagent Trough 170 ml	R1
Binding reagent (70% Ethanol)	Reagent Trough 70 ml	R1
Final wash reagent (100% Ethanol)	Reagent Trough 70 ml	R1
Elution reagent (RNase-free water)	Reagent Trough 70 ml	C1
TopElute Fluid	Reagent Trough 70 ml	C1

Consumables

Consumables	Worktable position
Filter-Tips, OnCor C, 200 µl	B2 and C2 (2 x tip racks)
RNeasy 96 well plate	A1 (waste (left) compartment of vacuum chamber)
Elution Microtubes RS	A1 (elution (right) compartment of vacuum chamber)

Samples

Samples	Worktable position
S-Block, 96-Well	B1

Ordering Information

Product	Contents	Cat. no.
RNeasy 96 QIAcube HT Kit (5)	For 480 preps: RNeasy plates, RNase-free water, buffers	74171
QIAcube HT Plasticware	For 480 preps: 5 S-Blocks, 5 EMTR RS, 2 x 50 Caps for EMTR, 9 x 96 Filter-Tips OnCor C, TapePad	950067
Elution Microtubes RS	24 x 96 Elution Microtubes, racks of 96; includes cap strips	120008
S-Blocks	24 x 96-well blocks with 2.2 ml wells	19585
QIAcube HT instrument		
QIAcube HT system	Robotic workstation with UV lamp, HEPA filter, laptop, QIAcube HT operating software, start-up pack, installation and training, 1-year warranty on parts and labor	9001793
Accessories Pack, QXT	Upgrade kit for QIAxtractor® instrument; adapter set to use dedicated QIAcube HT kits on the QIAxtractor. Contains: Transfer Carriage (9022654), Riser Block EMTR (9022655), and Channeling Adapter (9022656)	9022649

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 or can be requested from QIAGEN Technical Services or your local distributor.

For a complete list of accessories, visit www.qiagen.com/p/QIAcubeHT.

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