

QIAamp® 96 DNA QIAcube® HT Protocol

For use with QIAamp 96 DNA QIAcube HT Kit and QIAcube HT Plasticware

This protocol is intended for the automated purification of DNA from blood and tissue, using the QIAcube HT instrument. This protocol can also be used for purification total DNA (e.g., genomic, mitochondrial, and pathogen) from a variety of sample sources including fresh or frozen tissues, cells, and blood. The procedure yields high-quality DNA that performs well in PCR and other enzymatic reactions. The QIAamp 96 DNA 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: **QIAamp 96 DNA QIAcube HT V1.qsp**
- Purification of genomic DNA 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	Blood: up to 200 µl (for sample volumes less than 200 µl, add PBS) Cells: up to 5 x 10 ⁶ cells Tissues: up to 20 mg tissue (10 mg for spleen, liver, or lung tissue)
Elution volume	200 µl
Duration	96 samples in approximately 96 minutes 24 samples in approximately 45 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 *QIAamp 96 DNA 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 AW1	Reagent Trough 170 ml	R1
Wash Buffer AW2	Reagent Trough 170 ml	R1
Final wash reagent (96% Ethanol)	Reagent Trough 70 ml	R1
Elution Buffer AE	Reagent Trough 70 ml	R1
Binding reagent (Buffer VXL mix)*	Reagent Trough 70 ml	C1
Binding Buffer ACB	Reagent Trough 70 ml	C1
TopElute Fluid	Reagent Trough 70 ml	C1

* For Blood and Cells, Buffer VXL is mixed with Proteinase K.

Consumables

Consumables	Worktable position
Filter-Tips, OnCor C, 200 µl	B2 and C2 (2 x tip racks)
QIAamp 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.
QIAamp 96 QIAcube HT Kit (5)	For 480 preps: QIAamp plates, QIAGEN Proteinase K, Buffers	51331
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
TissueLyser		
TissueLyser II	Bead mill, 100–120/220–240 V, 50/60 Hz; requires the TissueLyser Adapter Set, 2 x 24 or TissueLyser Adapter Set 2 x 96 (available separately)*	85300
TissueLyser Adapter Set 2 x 24	2 sets of adapter plates and 2 racks for use with 2 ml microcentrifuge tubes on the TissueLyser II	69982
TissueLyser Adapter Set 2 x 96	2 sets of adapter plates for use with Collection Microtubes (racked) on the TissueLyser II	69984
TissueLyser LT	Compact bead mill, 100-240 V AC, 50–60 Hz; requires the TissueLyser LT Adapter, 12-Tube (available separately)†	85600
TissueLyser LT Adapter, 12-Tube	Adapter for disruption of up to 12 samples in 2 ml microcentrifuge tubes on the TissueLyser LT	69980
Stainless Steel Beads, 5 mm (200)	200 stainless steel beads (5 mm diameter), suitable for use with TissueLyser systems	69989
Collection Microtubes (racked, 10 x 96)	Nonsterile polypropylene tubes (1.2 ml), 960 in racks of 96	19560
Collection Microtube Caps (120 x 8)	Nonsterile polypropylene caps for collection microtubes (1.2 ml) and round-well blocks, 960 in strips of 8	19566

* The TissueLyser II must be used in combination with the TissueLyser Adapter Set 2 x 24 or TissueLyser Adapter Set 2 x 96.

† The TissueLyser LT must be used in combination with the TissueLyser LT Adapter, 12-Tube.

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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