

# QIAcube | Protocol Sheet

## General Information (April 2010)

<b>Application</b>	RNA
<b>Kit</b>	RNeasy® Mini Kit
<b>Sample material</b>	Animal cells
<b>Short protocol name</b>	QIAshredder DNase digest
<b>Version</b>	1
<b>Full protocol name</b>	Purification of total RNA from animal cells (QIAshredder homogenization and on-column DNase digest)
<b>Editable parameters</b>	Elution volume: 30–100 µl in increments of 10 µl; default 50 µl
<b>Required QIAcube® software versions</b>	<b>Firmware version FIW-50-001-J_FW_MB.hex and PLC program version FIW-50-002-G_PLC_MB.prs or higher; available from the QIAcube Web Portal</b>

## Shaker

<b>Material</b>	5 x 10 <sup>6</sup> – 1 x 10 <sup>7</sup> cells disrupted in 600 µl Buffer RLT (thaw cells before starting)
<b>Vessel</b>	2 ml safe-lock microcentrifuge tube*
<b>Adapter</b>	Shaker adapter for 2 ml microcentrifuge tubes (marked with "2")

\* Sample Tubes RB, 2 ml (cat. no. 990381); see [www.qiagen.com/MyQIAcube](http://www.qiagen.com/MyQIAcube).

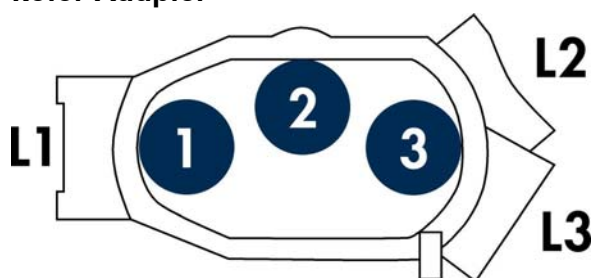
## Disposable Tips

Disposable Filter-Tips, 1000 µl  
Disposable Filter-Tips, 1000 µl wide-bore

## Reagent Bottle Rack

**Rack labeling strip** RNeasy Mini

## Rotor Adapter



### Position Reagent

1	–
2	70% ethanol
3	–
4	Buffer RW1
5	Buffer RPE
6	RNase-free water

Position	Labware	Lid position
1	RNeasy spin column (pink)	L1
2	QIAshredder spin column (cut off lid before placing into rotor adapter)	–
3	1.5 ml collection tube†	L3

† Sarstedt, Micro tube 1.5 ml Safety Cap (see [www.sarstedt.com](http://www.sarstedt.com)).



# QIAcube | Protocol Sheet

## Microcentrifuge Tube Slots

	Position		
	A	B	C
<b>Content</b>	DNase I incubation mix		
<b>Vessel</b>	2 ml safe-lock microcentrifuge tube <sup>†</sup>		

<sup>†</sup> Sample Tubes RB, 2 ml (cat. no. 990381); see [www.qiagen.com/MyQIAcube](http://www.qiagen.com/MyQIAcube).

Number of samples	Volume of reagent required for the indicated number of samples (μl)		
	A	B	C
2	213 μl (27 μl DNase Mix + 186 μl RDD)		
3	300 μl (37 μl DNase Mix + 263 μl RDD)		
4	386 μl (48 μl DNase Mix + 338 μl RDD)		
5	472 μl (59 μl DNase Mix + 413 μl RDD)		
6	559 μl (70 μl DNase Mix + 489 μl RDD)		
7	645 μl (81 μl DNase Mix + 564 μl RDD)		
8	731 μl (91 μl DNase Mix + 640 μl RDD)		
9	818 μl (102 μl DNase Mix + 716 μl RDD)		
10	904 μl (113 μl DNase Mix + 791 μl RDD)		
12	1077 μl (135 μl DNase Mix + 942 μl RDD)		

## Comments

Be sure to cut off the lids of the QIAshredder spin columns before placing into the rotor adapters.

Trademarks: QIAGEN®, QIAcube®, RNeasy® (QIAGEN Group).  
© 2007–2010 QIAGEN, all rights reserved.

