

Product Sheet

RNeasy[®] DSP Midi Kit

Contents

RNeasy DSP Midi Kit	(50)
Catalog no.	78344
Number of preparations	50
RNeasy Midi columns in 1.5 mL tubes	50
Collection tubes (1.5 mL) for elution	50
Buffer RLT*§	220 mL
Buffer RW1*	220 mL
Buffer RPE†	65 mL
RNase-free water	50 mL

* Not compatible with disinfecting reagents containing bleach. Contains guanidine isothiocyanate (GITC), which is an irritant. Take appropriate safety measures and wear gloves when handling.

§ Buffer RLT may form a precipitate upon storage. If necessary, redissolve by warming up to 35°C until precipitates have dissolved, and then place at room temperature.

† Wash Buffer RPE is supplied as a concentrate. Before using for the first time, add 4 volumes (260 mL) of ethanol (96–100%; molecular biology grade or higher) as indicated on the bottle, to obtain a working solution.

Version 1

IVD

CE

REF

78344



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Materials Required but Not Provided

- Ethanol (96–100%; molecular biology grade or higher) *
- Laboratory centrifuge with a swinging bucket rotor (capable of $\geq 3000 \times g$; all centrifugation steps are carried out at 20–25°C)
- Disposable gloves

Reagents needed for Erythrocyte Lysis

- Buffer EL (cat. no. 79218)
- 14.3 M β -mercaptoethanol (β -ME)[†]
- Laboratory centrifuge with a swinging bucket rotor (capable of $\geq 400 \times g$ at 4°C)
- Equipment for disruption and homogenization of blood cell pellet (e.g., 18–20-gauge needle fitted to RNase-free syringe)
- 50 mL centrifuge tubes

Ensure that instruments have been checked and calibrated according to the manufacturer's recommendations.

* Do not use denatured alcohol, which contains other substances, such as methanol or methylethylketone

[†] β -ME must be added to Buffer RLT before use. β -ME is toxic; dispense in a fume hood and wear appropriate protective clothing. Add 10 μ L of 14.3 M β -ME per 1 mL of Buffer RLT (e.g., 4 mL buffer RLT + 40 μ L β -ME for one sample).

Shipping and Storage

The RNeasy DSP Midi Kit is shipped at ambient condition and must be stored dry at room temperature (15–25°C).

When stored under the specified storage conditions, the RNeasy DSP Midi Kit is stable until the stated expiration date on the label.

Once opened, reagents can be stored in their original packaging at room temperature (15–25°C) for up to 9 months, but not longer than the expiration date on the label.

Do not use if stored outside the specifications, if the packaging has been damaged, or if other signs of deterioration or malfunction are visible.

Symbols

CE

This product fulfills the requirements of the European Regulation (EU) 2017/746 for in vitro diagnostic medical devices (IVDR).

IVD

In vitro diagnostic medical device

REF

Catalog number

MAT

Material number

LOT

Lot number

GTIN

Global Trade Item Number

UDI

Unique Device Identifier

CONT

Contains

COMP

Component

CONC

Concentrate

LYS

Lysis

BUF

Buffer

WASH

Wash

ELU

Elution

COL

Spin Column

TUBE

Tube

EtOH

Ethanol

ADD

To be added

NUM

Number

GITC

Guanidinium isothiocyanate



Ethanol was added?

Rn

R is for revision of the Product Sheet and n is the revision number

Vn

V is for version of the Product Sheet and n is the version number



To be used by



Temperature limitations



Legal manufacturer



Consult instructions for use



<N>

Contains reagents sufficient for <N> reactions

Intended Use

For In Vitro Diagnostic Use

The RNeasy DSP Midi Kit uses silica-membrane technology (RNeasy technology) for manual isolation and purification of total RNA from human blood and bone marrow aspirates for use with in-vitro diagnostic QIAGEN products where the RNeasy DSP Midi Kit is listed as an accessory Kit.

The product is intended to be used by professional users, such as technicians and physicians, who are trained in molecular biological techniques.

The RNeasy DSP Midi Kit is intended for in vitro diagnostic use.

Description

The RNeasy DSP Midi Kit provides manual purification of high-quality RNA from human blood or bone marrow aspirates using silica-membrane RNeasy spin columns with a high binding capacity for RNA.

RNeasy technology simplifies total RNA isolation by combining the stringency of guanidine-isothiocyanate lysis with the speed and purity of silica-membrane purification.

With the RNeasy DSP Midi Kit, total RNA is easily purified from human blood or bone marrow aspirates. Erythrocytes from blood are lysed and white blood cells are collected, lysed, and homogenized. Ethanol (not part of the kit) is added to the lysate to provide ideal binding conditions. The lysate is then loaded onto the RNeasy silica column. RNA binds to the silica membrane, is washed, and pure concentrated RNA is eluted in water.

Please consult the respective instructions for use of the respective QIAGEN downstream application for detailed instructions on handling of this product within the corresponding workflow.

Safety Information

Please be aware that you may be required to consult your local regulations for reporting serious incidents that have occurred in relation to the device to the manufacturer and the regulatory authority in which the user and/or the patient is established. When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available online in convenient and compact PDF format at www.qiagen.com/safety, where you can find, view, and print the SDS for each QIAGEN® kit and kit component.

Specimens and samples are potentially infectious. Discard sample and assay waste according to your local safety procedures.

<p>CAUTION</p> 	<p>DO NOT add bleach or acidic solutions directly to the sample-preparation waste.</p>
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Buffers RLT and RW1 contain guanidine isothiocyanate, which can form highly reactive compounds when combined with bleach. If liquid containing these buffers is spilt, clean with suitable laboratory detergent and water. If the spilt liquid contains potentially infectious agents, clean the affected area first with laboratory detergent and water, and then with 1% (v/v) sodium hypochlorite.

The following hazard and precautionary statements apply to components of RNeasy DSP Midi Kits.

Buffer RL1



Contains: guanidine thiocyanate. Danger! Harmful if swallowed.. May be harmful in contact with skin or if inhaled. Causes serious eye damage. Harmful to aquatic life with long lasting effects. Contact with acids liberates very toxic gas. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Immediately call a POISON CENTER or doctor/ physician. Dispose of contents/ container to an approved waste disposal plant.

Buffer RW1



Contains: ethanol; guanidine thiocyanate. Danger! Flammable liquid and vapor. Causes serious eye damage. Contact with acids liberates very toxic gas. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Emergency information

CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: +1 703-527-3887

Disposal

Dispose of as hazardous waste in compliance with local and national regulations. This also applies to unused products.

Follow recommendations in the Safety Data Sheet (SDS).

<p>CAUTION</p> 	<p>Used product and product waste may contain infectious material.</p>
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Quality Control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of the RNeasy DSP Midi Kit is tested against predetermined specifications to ensure consistent product quality.

Limitations

This product may only be used in conjunction with QIAGEN kits referring to its use in the respective instructions for use (handbook). It is the user's responsibility to validate system performance for any procedures used in their laboratory according to local requirements, laws, and regulations.

Active Ingredients

Reagent	Name	Active Ingredient	Concentration (% w/w)
Buffer RLT	Lysis Buffer	Guanidinium thiocyanate	≥30 – <50
Buffer RW1	Wash Buffer 1	Guanidinium thiocyanate ethanol	≥10 – <20 ≥1 – <10
RPE (concentrate)	Wash Buffer 2	None	-
RNFW	RNase-free water	None	-

Procedure

The RNeasy DSP Midi Kit should be used following the instructions given in the Instruction for Use (IFU) of the QIAGEN products for which the RNeasy DSP Midi Kit is listed as an accessory kit. For specimen collection, handling, and storage conditions, also refer to the downstream application's IFU.

Note: Performance characteristics for the RNeasy DSP Midi Kit have only been established in conjunction with the associated QIAGEN products. For further information regarding performance characteristics of the RNeasy DSP Midi Kit, refer to the IFU of the associated QIAGEN products.

Ordering Information

Product	Contents	Cat. no.
RNeasy DSP Midi Kit	For 50 samples	78344
Buffer EL	2 x 250 mL Erythrocyte Lysis Buffer	79218

Document Revision History

Date	Changes
07/2023	Initial release

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