



RNase-Free DNase Set

For DNase treatment with QIAGEN® or PreAnalytiX™ RNA purification kits

Kit Contents

RNase-Free DNase Set	(50)
Catalog no.	79254
DNase I, RNase-Free (lyophilized)	1500 Kunitz units*
Buffer RDD	2 x 2 ml
RNase-Free Water	1.5 ml

* Kunitz units are the commonly used units for measuring DNase I, defined as the amount of DNase I that causes an increase in A_{260} of 0.001 per minute per milliliter at 25°C, pH 5.0, with highly polymerized DNA as the substrate (Kunitz, M. [1950] J. Gen. Physiol. **33**, 349 and 363).

Shipping and Storage

The RNase-Free DNase Set is shipped at room temperature and should be stored immediately upon receipt at 2–8°C. When stored at 2–8°C and handled correctly, the buffer and lyophilized enzyme can be kept for at least 9 months without any reduction in performance.

Product Description

In some cases, the vial of DNase may appear to be empty. This is due to lyophilized enzyme sticking to the septum. **To avoid loss of DNase, do not open the vial.** Instead, inject RNase-free water into the vial using a needle and syringe, invert the vial to dissolve the DNase, and remove the dissolved DNase using the syringe and needle.

Insoluble material may remain when dissolving DNase. This does not affect DNase performance. Due to the production process, insoluble material may be present in the lyophilized DNase. However, rigorous QC tests are carried out to ensure that DNase activity remains consistent from lot to lot.

The RNase-Free DNase Set provides efficient on-column digestion of DNA during RNA purification using RNeasy® Kits,[†] EZ1 RNA Kits, MagAttract® RNA Kits, the QIAamp® RNA Blood Mini Kit, or the PAXgene™ 96 Blood RNA Kit (instructions are provided in the handbooks supplied with the kits). The DNase is efficiently removed in subsequent wash steps. Generally, DNase digestion is not required for RNA purified with these kits, since silica-membrane technology efficiently removes the majority of the DNA without DNase treatment. However, complete DNA

[†] For DNase treatment with the RNeasy 96 Kit, please contact QIAGEN Technical Services or your local distributor for a separate, optimized protocol.

removal may be necessary for certain RNA applications that are sensitive to very small amounts of DNA.

Note: Buffer RDD is optimized for on-column DNase digestion. The buffer is also well-suited for efficient DNase digestion in solution. A protocol can be found in Appendix C of the *RNeasy MinElute Cleanup Handbook* (www.qiagen.com/KB/RNeasyMinEluteCleanup).

Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online in convenient and compact PDF format at www.qiagen.com/ts/msds.asp where you can find, view, and print the MSDS for each QIAGEN kit and kit component.

The following risk and safety phrases apply to components of the RNase-Free DNase Set.

DNase I

Contains deoxyribonuclease: sensitizer. Risk and safety phrases: * R42/43, S22-24-26-36/37

24-hour emergency information

Emergency medical information in English, French, and German can be obtained 24 hours a day from: Poison Information Center Mainz, Germany, Tel: +49-6131-19240

Ordering Information

Product	Contents	Cat. no.
RNase-Free DNase Set (50)	For 50 RNA minipreps, 25 midipreps, or 17 maxipreps: 1500 units RNase-Free DNase I, RNase-Free Buffer RDD, and RNase-Free Water	79254

The RNase-Free DNase set is intended for molecular biology applications. This product is not intended for the diagnosis, prevention, or treatment of a disease.

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.

* R42/43: May cause sensitization by inhalation and skin contact; S22: Do not breathe dust; S24: Avoid contact with skin;
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S36/37: Wear suitable protective clothing and gloves.

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