

Manual

Total RNA Zol-Out™

Kit for the rapid purification of ultra-pure total RNA from samples prepared in (TRIzol® TRI Reagent®, RNAzol®, QIAzol®, TriPure ™, TriSure ™, etc.).

catalog#	size	
030-25	25 isolations	
030-100	100 isolations	

Guarantee

A&A Biotechnology provides a guarantee on this kit.

The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- not recommended use of equipment and materials
- . the use of other reagents than recommended or which are not a component of the kit
- the use of expired or improperly stored reagents and columns

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Kit contents

	25 isolations	100 isolations	storage
Minicolumns for RNA isolation	25 pcs	100 pcs	15-25 ℃
2 ml tubes	25 pcs	100 pcs	15-25 ℃
A1 wash solution	50 ml	200 ml	15-25 ℃
Isopropanol	10 ml	30 ml	15-25 ℃
Ultrapure water	8 ml	30 ml	-20−25 °C

The binding capacity of the RNA purification column is 100 µg of RNA.

Additional equipment and reagents

Necessary

- 1.5 ml sterile Eppendorf tubes
- Microcentrifuge

Optional

- 96%-99% ethanol
- Chloroform
- BPC (1-bromo-3-chloropropan)
- DNAse (cat. # 1009-10, 1009-100)
- Clean-Up RNA Concentrator (cat. # 039-25C, 039-100C)
- Heatblock or incubator set to 37 °C, 75 °C

Important notes

When working with RNA, use RNAse-free consumables. Work sterile, use disposable gloves and change them whenever good laboratory practice requires it.

Material preparation

For a sample suspended in: TRIzol®, TRI Reagent® and other reagents based on a mixture of phenol and guanidine thiocyanate or hydrochloride (RNAzol®, QIAzol®, TriPure™, TriSure™, etc.)

choose one of four methods (A, B, C or D) to prepare samples for RNA isolation.

To 1 volume of the sample add:

- A. 1/5 volume of chloroform (not included) proportion of 5:1, e.g. add 0.2 ml of chloroform to 1 ml of sample. Follow poin 1. of the protocol.
- B. 1/10 volume of BCP (not included) proportion of 10:1, e.g. add 0.1 ml BPC to 1 ml of sample. Follow poin 1. of the protocol.
- C. 1 volume of 96%-100% ethanol (not included) proportion of 1:1, e.g. add 1 ml of ethanol to 1 ml of sample. Follow poin 3. of the protocol.
- D. 1/3 volume of ultrapure water (included) proportion of 3:1, e.g. add 0.3 ml of ultrapure water to 1 ml of sample.

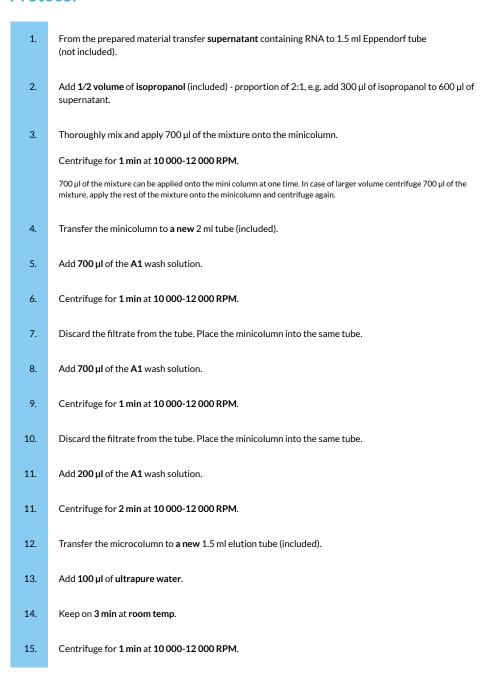
Centrifuge for 15 min at 10 000-12 000 RPM.

Transfer a supernatant to a new 1.5 ml tube (not included).

Add 1/2 volume of isopropanol (included) - proportion of 2:1, e.g. add 0.5 ml of isopropanol to 1 ml of supernatant.

Follow poin 3. of the protocol.

Protocol



Remove the minicolumn, close the elution tube with the purified RNA. Store at -20, -80°C until later use.

Additional clean-up / concentration of isolated RNA sample (optional)

Total RNA Zol-Out[™] kit effectively isolates and purifies RNA for most downstream applications.

In case of the highest possible RNA sample purity being required, as for example supreme DNA removal, we recommend to additionally process RNA sample, as follows:

Use of the DNAse (cat. # 1009-10, 1009-100)

1. To 100 µl of RNA eluate add:

1 µl of DNAse (10 U/µl) 10 µl of 10x reaction buffer (included with DNAse)

- 2. Incubate for 15 min at 37 °C.
- 3. Incubate for 10 min at 65 °C inactivation of DNAse.

Use of Clean-Up RNA Concentration Kit (cat. # 039-25C, 039-100C)

Kit for removal and concentration of RNA samples. Elution from $15\,\mu$ l. Microcolums (included with the kit) effectively bind RNA. Most contaminations flow through the microcolumns.

Elution of RNA is performed at 30 µl volume of ultrapure water and enables effective concentration.

Safety Information





DANGER

A1 wash solution

A1 wash solution

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.

P261 Avoid breathing vapors.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Isopropanol



A1 wash solution

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.

P261 Avoid breathing vapors.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.



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