nacalai tesque
The quality for certainty.

Ready-to-use Reagent for Total RNA Isolation

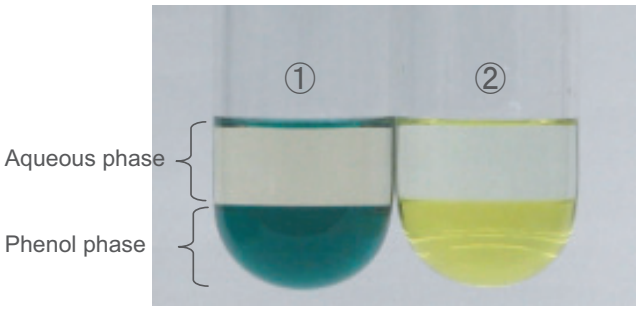
Sepasol-RNA I Super G

Sepasol-RNA I Super G is ready-to-use, green-phasic solution for isolating total RNA from biological samples such as cell or tissue etc. The green color of dye makes the separation of aqueous and phenol phases easier compared with RNA I Super included in yellow dye.

» **Easy to use** - Ready-to-use green mono-phasic solution.
- Easy to identify interphase compared to Sepasol RNA I Super.

» **Fast** - Isolation procedure are completed in less than 1hr.

» **High purity** - The purified RNA is ready for use in standard downstream application such as RT-PCR.



① Sepasol-RNA I Super G
② Sepasol-RNA I Super

Protocol

Isolation procedure is completed in less than one hour.

Sample (5-10 × 10^6 cells, 50–100 mg tissue)
↓ 1 ml Sepasol-RNA I Super G
Homogenize sample in Sepasol
Keep at room temperature for 5 min
↓ 200 µl chloroform
Shake the tube
Keep at room temperature for 3 min
↓ Centrifuge the tube at 12,000 x g for 15 min at 4°C
Transfer the upper aqueous phase to a fresh tube
aqueous phase
↓ 500 µl 2-Propanol
Keep at room temperature for 10 min
↓ Centrifuge the tube at 12,000 x g for 10 min at 4°C
Remove the supernatant (approx. 1 ml)
↓ 1–2 ml 75% ethanol
Stir and make them suspend
↓ Centrifuge the tube at 12,000 x g for 5 min at 4°C
Remove the supernatant (approx. 1 ml)
Total RNA

Yield and purity of the isolated RNA

Data on isolated total RNA from HL-60 cell by Sepasol-RNA I Super G (Left) and by Sepasol-RNA I Super (Right). The isolation was from 5 x 10^6 cell.

Product Name	Yield (mg)	Purity (A_{260}/A_{280})
Sepasol-RNA I Super G	32.4	2.08
Sepasol-RNA I Super	29.8	2.07

Ordering Information

Product Name	Storage	Product Number	PKG Size
Sepasol-RNA I Super G	4°C	09379-84	100 ml
		09379-97	200 ml
		09379-55	500 ml

For RNase Decontamination

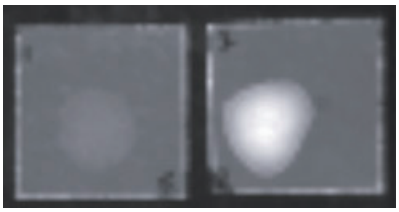
RNase Quiet

RNase Quiet is a ready-to-use solution for eliminating RNase contamination. It completely removes RNase contamination from glass, plastic equipments and laboratory tables.

- » **Removes RNase contamination effectively**
- » **Easy to use spray type**
- » **Easy to wipe with no detergent**
- » **Non-carcinogenic with no DEPC**

Decontamination of cover glass

DEPC treated water RNase Quiet



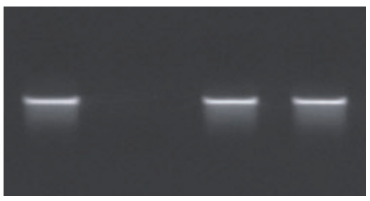
Condition

1. Apply 100 µl RNase A solution (1mg/ml) on cover glasses and dry them.
2. Spray with DEPC treated water or RNase Quiet and wait for 1 minute. Wipe thoroughly with a clean paper towel and then rinse with RNase-free sterile water.
3. Apply 50 µl RNA Solution (40 µg/ml) on the cover glasses and incubate them at 37°C for 30 minutes.
4. Apply 1µl ethidium bromide solution (20 µg/ml) on the cover glasses with a pipette.
5. Observe the cover glasses with UV.

Decontamination of 1.5 ml micro-tubes

DEPC treated water RNase Quiet

RNase A − + − +



Condition

1. (+): Add 10 µl RNase A solution (10 mg/ml) in 1.5 ml micro-tubes.
   (−): Add 10 µl lysate buffer in 1.5 ml micro-tubes.
2. Add 1 ml DEPC treated water or RNase Quiet and wait for 1 minute. Remove the solution from the tube.
3. Add 25µl RNA Solution (40 µg/ml) and incubate them at 37°C for 30 minutes.
4. Analyze RNA solution by electrophresis with 1% agarose gel including 100 ng/ml ethidium bromide and then staining gel with 200 ng/ml ethidium bromide solution.

Ordering Information

Product Name	Storage	Product Number	PKG Size
RNase Quiet (with spray nozzle)	Room Temp.	09147-14	475 ml
RNase Quiet for Replacement	Room Temp.	09477-94	475 ml

Related Products

Ordering Information

Product Name	Storage	Product Number	PKG Size
100g/l-Hexadecyltrimetylammonium Bromide Solution, Nuclease tested	Room Temp.	17472-94	100 ml
Phenol:Chloroform 5:1 Mixed, pH4.5	4°C	26729-64 26729-06	100 ml 400 ml
Phenol:Chloroform:Isoamyl Alcohol 25:24:1 Mixed, pH5.2	4°C	26058-54 26058-96	100 ml 400 ml
Water, DEPC treated, RNase tested	Room Temp.	36420-61 36420-74 36415-54 36415-41	10 x 1 ml 50 x 1 ml 100 ml 1 L
Hexadecyltrimethylammonium Bromide	Cool and Dark	08897-82	25 g
Guanidine Thiocyanate	Room Temp.	06287-32 06287-45	25 g 500 g
Ethanol(99.5)	Room Temp.	08948-54 08948-25	100 ml 500 ml

For research use only, not intended for diagnostic or drug use.

NACALAI TESQUE, INC.

Nijo Karasuma, Nakagyo-ku, Kyoto 604-0855 JAPAN
TEL : +81-(0)75-251-1730
FAX : +81-(0)75-251-1763
Website : www.nacalai.com
E-mail : info.intl@nacalai.com