Aurum Total RNA Mini Kit

Vacuum Format Protocol Overview

Cultured cells

Adherent Rinse vessel with PBS, aspirate.

Lyse in vessel if # of cells <2 x 106.

Nonadherent

Rinse with PBS.

Transfer up to 2 x 10⁶ cells, centrifuge 2 min.

Decant supernatant.

Add 350 µl lysis solution. Pipet up and down 12x. Add 350 µl 70% EtOH.

Pipet up and down.

Bacterial cells

Transfer up to 2.4 x 109 cells into a capped 2 ml tube. Centrifuge at maximum speed 1 min. Decant supernatant.

Add 100 ul of 500 ua/ml lysozyme. Pipet up and down.

Incubate at room temp. for 5 min.

Add 350 µl lysis solution. Pipet up and down 12x.

Add 250 µl 70% isopropyl alcohol. Pipet up and down.

Yeast cells

Transfer up to 3 x 10⁷ cells into a capped 2 ml tube. Centrifuge at maximum speed 1 min. Decant supernatant.

Add 1 ml of 50 U/ml lyticase in lyticase dilution buffer. Pipet up and down.

Incubate at room temp. for 10 min. Centrifuge at 5,000 rpm for 5 min. Discard supernatant.

> Add 350 µl lysis solution. Pipet up and down 12x.

Add 350 µl 70% EtOH. Pipet up and down.

Continue with the following steps for all sample types:



Assemble manifold properly for isolation.

Transfer lysate to RNA binding column.

Apply vacuum.

Apply vacuum.

Add 700 µl low stringency wash.

Apply vacuum.

Dilute 5 µl reconstituted* DNase I with 75 ul DNase dilution solution.

Add 80 µl diluted DNase I.

Incubate 15 min at room temp. Apply vacuum.

Add 700 µl high stringency wash.

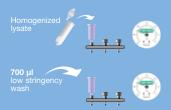
Add 700 µl low stringency wash.

Apply vacuum. Spin-purge 2 min into a capless 2 ml tube.

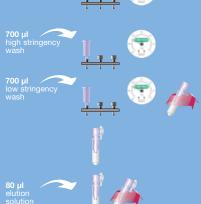
Place RNA binding column into a 1.5 ml capped tube.

Add 80 µl 70°C elution solution onto membrane stack.

Incubate 1 min. Centrifuge 2 min to elute.







Aurum Total RNA Mini Kit: Cat. #732-6820



^{*} Refer to manual for detailed protocol.

Aurum Total RNA Mini Kit

Vacuum Format Protocol Overview*

Animal tissue

Cut tissue into small pieces (<5 mm). Grind into fine powder under liquid nitrogen.

Do not let tissue thaw.

Transfer up to 20 mg (hard tissue) or 40 mg (soft tissue) to a capped 2 ml tube.

Plant tissue

Cut tissue into small pieces (<5 mm). Grind into fine powder under liquid nitrogen.

Do not let tissue thaw.

Transfer up to 60 mg to a capped 2 ml tube.

Continue with the following steps for all sample types:

Add 700 µl lysis solution.

Disrupt vigorously with rotor-stator for 30-60 sec.



Centrifuge lysate at maximum speed for 3 min.

Transfer supernatant to a new 2 ml capped tube.

Add 700 µl EtOH (use 60% for animal tissue, 70% for plant tissue) to supernatant. Homogenize with rotor-stator 30 sec.

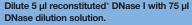


Assemble manifold properly for isolation.

Transfer lysate.

Apply vacuum.

Add 700 μl low stringency wash. Apply vacuum.



Add 80 µl diluted DNase I.

Incubate at room temp. 25 min for animal tissue, 15 min for plant tissue. Apply vacuum.

80 µl DNase I in dilution solution

Add 700 µl high stringency wash.

Apply vacuum.

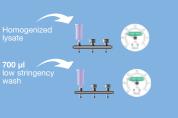
Add 700 µl low stringency wash.

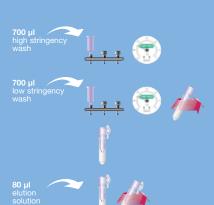
Apply vacuum. Spin-purge 2 min into 2 ml capless tube.

Place RNA binding column into a 1.5 ml capped tube.

Add 80 µl 70°C elution solution onto membrane stack.

Incubate 1 min. Centrifuge 2 min to elute.





^{*} Refer to manual for detailed protocol.