Glassware material clean-up for RNA extraction

Adapted from ChatGPT

Guaranteeing RNase-free glassware is essential for RNA extraction and is very achievable with a redundant, best-practice approach. This procedure provides clean glassware suitable for RNA extraction from animal tissues. A washing step will remove proteins and organic residues that protect RNases. An additional material, dry baking, will irreversibly denature RNases.

Required equipment and consumables

- Aluminum foil
- Dry laboratory baker
- Glass tubes for tissue homogenizer
- Laboratory soap
- Tissue homogenizer

Procedure

1) Thorough detergent wash
- Wash glassware with lab detergent
- Rinse extensively with tap water
- Final rinse with distilled or Milli-Q water

2) Glassware baking
- Bake at 180°C for 4–8 hours. Minimum effective: 180°C for 4 hours.
- Use a dry oven (not autoclave). Wrap items loosely in aluminum foil after baking

Applications

The clean material can be used for RNA extraction from animal tissues