Twist SARS-CoV-2 Encapsulated RNA Control Storage and Handling Guide

KIT CONTENTS

This kit contains:
- One rack of either 16 or 96 encapsulated control tubes
- Either one (1) or Four(4) openers depending on kit size
- The lot validation certificate

DETAILS AND SPECIFICATIONS

Each tube is identified with a 2D Data Matrix code as well as an alphanumeric code containing the lot ID. Each encapsulated control tube contains approximately 50,000 copies of the SARS-CoV-2 control.

SHIPPING AND STORAGE

Kit shipping and storage should be done at ambient temperatures (4°C–40°C).

Do not heat or freeze the kit. When properly stored the kit stability is 5 years from date of manufacturing.

PERFORMANCE

Each lot is quality controlled by measuring recovery of RNA molecules using digital droplet PCR on randomly selected tubes for each lot.

CONSIDERATIONS OF USE

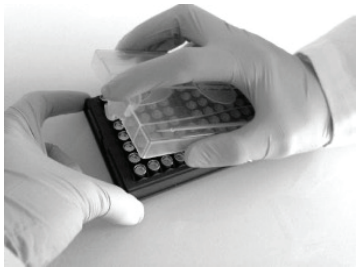
Capsule opening and rehydration should be performed in a RNase-free environment. Although the opener perforating tip does not contact the sample in the tube, it is suggested that the opener tip and lid of the tube are treated to remove any RNase following standard operating procedures of the laboratory.

Each encapsuled control is intended for single use. It is not recommended to store any remaining product in the tube for future usage.

The product is intended to be rehydrated with 20 µL of RNase-free molecular grade water. Once opened, the RNA content should be rapidly rehydrated, and the RNA solution must be used within 2 hours.

RACK HANDLING

To open the rack containing the tubes, place it on a flat bench and hold the opposite ends by applying light pressure on top of the rack. Maintaining a firm grip on the base of the rack, release the lock on the lid using your index finger as shown in the picture.



RNA RESUSPENSION

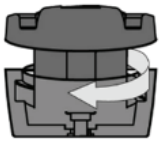
1. Remove a tube from the rack and place it in an empty working rack (not provided).

2. For each encapsulated control:
- Check the control type indicated on the label.
- Place a tube in the base of a opener with the 2D bar code on the bottom..
- Place the top of the opener onto the tube.
- Hold the two parts of the opener tightly and rotate the top of the opener clockwise until it pierces the lid of the tube.
- Repeat the procedure as necessary to enlarge the opening.
- Remove the top portion of the opener.
- Place the opened tube back in the working rack.
- Add 20 µL of RNase-free molecular grade water to resuspend the pellet. The expected concentration once resuspended will be approximately ~2,500 copies/µL (625–5,000 copies/µL).

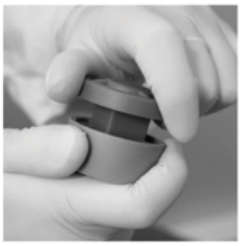
Note: Volume and solvent for the rehydration may be adjusted if required by the downstream use. Using less than 20 µL may result in lower yield of recovery.

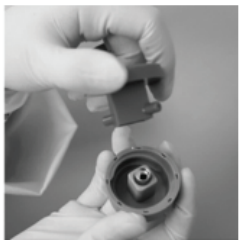
3. Once all the tubes are opened and water has been added
- Place the working rack lid in place.
- Incubate at room-temperature for 5–10 minutes.
- Mix the solution in each tube by gently pipetting up and down using disposable filter tips.
- Store the rehydrated RNA on ice until use.

OPENER



INSTRUCTIONS





WASTE MANAGEMENT

Perforated metal tubes should be handled and eliminated as non-hazardous waste. Other parts of the kit can be handled as regular waste.

HAVE FURTHER QUESTIONS?

Please contact us at **support@twistbioscience.com** or chat with a customer support representative at **twistbioscience.com**.