

High Capacity RNA-to-cDNA Kit (50 x 20 uL reactions)

Product P/N 4387406
Insert P/N 4387949 REV B
Printed in USA



For Research Use Only.
Not for use in diagnostic procedures.

Kit Contents:

- 1 tube RT Buffer Mix 2X (50 x 20 uL reactions)
- 1 tube RT Enzyme Mix 20X (50 x 20 uL reactions)

Important Storage and Handling Information:

- High Capacity RNA-to-cDNA Kit should be stored at -15°C to -25°C for maximum shelf life.
- RT Enzyme Mix 20X must be store at -15°C to -25°C.
- RT Buffer Mix 2X may be store at 2°C to 8°C for up to 6 months for convenience of use.

Brief Procedure:

- Use up to 2 µg of total RNA per 20 µL reaction.
- Allow the kit components to thaw on ice.
- Referring to the table below, calculate the volume of components needed to prepare the required number of reactions.

Component	Component Volume/Reaction (µL)	
	+RT reaction	-RT control
2X RT Buffer	10.0	10.0
20X Enzyme Mix	1.0	—
RNA Sample	up to 9 µL	up to 9 µL
Nuclease-free H ₂ O	Q.S.* to 20 µL	Q.S.* to 20 µL
Total per Reaction	20.0	20.0

*Quantity Sufficient

- Aliquot RT reaction mix into plate or tubes.
- Seal the plates or tubes with appropriate seal or caps.
- Briefly centrifuge the plate or tubes to spin down the contents and to eliminate any air bubbles.
- Place the plate or tubes on ice until you are ready to start the reverse transcription reaction.
- Incubate the reaction for 37°C for 60 minutes. Stop the reaction by heating to 95°C for 5 minutes and hold at 4°C. For convenience the incubation may be performed in a thermal cycler.
- The cDNA is ready for use in real-time PCR application or long-term storage in freezer (-15°C to -25°C).