

DISCOVERY mRNA Duplex Amp Kit

Research Use Only

REF

760-249

08127174001



INTENDED USE

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

SUMMARY AND EXPLANATION

DISCOVERY mRNA Duplex Amp Kit is a user fillable kit to be filled with the appropriate ACD reagents. This kit is to be utilized alongside the corresponding Sample Prep Kit and mRNA detection kits on DISCOVERY staining platforms.

REAGENT PROVIDED

User-fillable dispensers for 60 tests are provided in the DISCOVERY mRNA Duplex Amp Kit (760-249 / 08127174001)

Each dispenser should be filled with the corresponding reagent from the ACD RNAscope® Duplex VS Kit (up to 14 mL for DISCOVERY mRNA Duplex Amp dispensers, and up to 26 mL for DISCOVERY mRNA Amp Wash).

DISCOVERY mRNA Duplex Amp 1
 DISCOVERY mRNA Duplex Amp 2
 DISCOVERY mRNA Duplex Amp 3
 DISCOVERY mRNA Duplex Amp 4
 DISCOVERY mRNA Duplex Amp 5
 DISCOVERY mRNA Duplex Amp 6
 DISCOVERY mRNA Duplex Amp 7
 DISCOVERY mRNA Duplex Amp 8
 DISCOVERY mRNA Duplex Amp 9
 DISCOVERY mRNA Amp Wash

MATERIALS NOT PROVIDED

ACD reagents are not provided, including negative and positive tissue control slides and probes.

Additional materials that may be required from Roche

1. DISCOVERY mRNA Sample Prep Kit (Cat. No. 760-248 / 08127166001)
2. DISCOVERY mRNA Detection Kits
3. Probe user fillable
4. DISCOVERY Wash (RUO) (Cat. No. 950-510 / 07311079001)
5. 10X SSC (Cat. No. 950-110 / 05353947001)
6. Reaction Buffer Concentrate (10X) (Cat. No. 950-300 / 05353955001)
7. DISCOVERY CC1 (Cat. No. 950-500 / 06414575001)
8. ULTRA LCS (Predilute) (Cat. No. 650-210 / 05424534001)
9. Hematoxylin II (Cat. No. 790-2208 / 05277965001)
10. Bluing Reagent (Cat. No. 760-2037 / 05266769001)
11. DISCOVERY Inhibitor (Cat. No. 760-4840 / 07017944001) (if not included in detection kit)
12. mRNA Link (RUO) (Cat. No. 760-6014 / 08127115001)

STORAGE AND HANDLING

To ensure proper reagent delivery and stability of the product, replace the nozzle cap after every use and immediately place the dispenser in the appropriate storage environment in an upright position.

WARNINGS AND PRECAUTIONS

1. Do not use dispensers beyond the use-by date printed on the kit label.
2. Consult local and/or state authorities with regard to recommended method of disposal.
3. Check priming chamber and meniscus before each use. (Refer to DISCOVERY ULTRA instrument's User Guide.)
4. When mounting the dispenser on the dispenser tray, grasp the coupler to avoid accidental manual dispensing.
5. Replace the nozzle cap on the nozzle tip after every use and store the dispenser in an upright position.
6. Do not manually dispense when inverted (upside down). Prime will be lost and may be impossible to restore.
7. Add reagent to the dispenser through the top of the barrel, not through the bottom nozzle tip. Do not refill the dispenser through the nozzle tip.
8. Do not manually dispense with the nozzle cap in place. This can permanently damage the dispenser.
9. Do not manually dispense or prime prior to each use. This is not necessary and wastes reagent.

10. Do not hold the barrel in the compressed position. Fluid can leak from the dispenser when the barrel is compressed.
11. Do not stack carousels with dispensers installed. This can cause the dispensers to leak.

INSTRUCTIONS FOR USE

Refer to the DISCOVERY ULTRA instrument's User Guide for instructions on filling and registering user-fillable dispensers.

Ensure the use-by date printed on the kit label has not passed. Do not register the kit if it has expired. Dispensers may fail to operate properly after this date.

TROUBLESHOOTING

Issue	Solution
The dispenser is not primed properly (partially-filled priming chamber or empty priming chamber).	<p>Re-Prime the Dispenser</p> <p>The dispenser should not lose prime if it is handled correctly. If re-priming is necessary, do the following:</p> <ol style="list-style-type: none"> 1. Aim the dispenser tip at a waste container. Remove the nozzle cap and depress the barrel (top of the dispenser). This should dispense a drop. 2. If no drop is dispensed, repeat Step 1 until a drop is dispensed. 3. If a drop is dispensed, refer to the DISCOVERY ULTRA instrument's User Guide. <p>If no drop is dispensed, follow the steps in the Prime the Dispenser section. If no drop is dispensed or inspection for prime fails (Step 3), or if repeated priming of the dispenser is required, contact your local support representative.</p>
Reagent meniscus absent from base and tip of the nozzle.	<p>Partial Dispense to Restore Meniscus</p> <ol style="list-style-type: none"> 1. If no reagent is visible in the nozzle area, slowly press down on the barrel to push reagent into the base and tip of the nozzle. When the meniscus is visible, release the barrel. 2. If this does not resolve the condition, re-prime the dispenser by following the steps in the Re-Prime the Dispenser section above. <p>If condition recurs, transfer the reagent into a new User-Fillable Kit or Prep Kit dispenser and follow the instructions in the Preparing the Dispenser for Use section.</p>
Debris in nozzle tip.	Inspect nozzle tip for dried reagent and remove carefully. If required, perform a partial dispense (as described in the previous section) in order to restore meniscus.
Leaking dispenser.	Transfer the reagent into a new User-Fillable Kit or Prep Kit dispenser and follow the instructions in the Preparing the Dispenser for Use section.
Blocked dispenser, or no drop is ejected, or inspection for prime fails.	<p>The normal performance characteristics of the dispenser are such that particulates (i.e., fibers, precipitation) could cause a dispenser blockage.</p> <p>A sign of blockage could include higher reagent volume than expected remaining within the dispenser after a period of use. Blockage is also evidenced by the failure of the dispenser to yield fluid upon manual prime, which can be tested by following the steps in the Re-Prime the Dispenser section above.</p> <p>If the dispenser barrel does not move freely, ensure that the dispenser reagent identification label is positioned above the label alignment line.</p> <p>If blockage is suspected (or if foreign material is observed in the dispenser barrel, priming chamber, or nozzle), transfer the reagent into a new User-Fillable Kit or Prep Kit dispenser and follow the instructions in the Preparing the Dispenser for Use section.</p>

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