

# 3017M Reagent Preparation

Item Numbers: 330006 and 330007

Each kit will contain the items below. The containers in the respective kits are clearly marked. The buffer and indicator bottles are installed on the right-hand side of the analyzer enclosure with the buffer in the farthest, right-hand position closest to the right side of the enclosure.

1. DPD reagent in a small amber glass bottle
2. The 500-mL Buffer reagent pre-charged with dry powder with a fill line
3. The 500-mL Indicator reagent pre-charged with dry powder with a fill line
4. Instructions for use

**NOTE:** 1 liter of deionized water (not included) is needed to prepare the reagents.

**CAUTION:** The DPD powder must be mixed in the Indicator container.

**WARNING:** Indicator reagent is corrosive. Handle with care.

## Preparing The Reagents

1. First, prepare the buffer by adding approximately half of the required DI water to the buffer bottle, capping the bottle, and shaking vigorously until the dry powder inside has completely dissolved.
2. Once no solids are visible, carefully fill the bottle to the fill line, re-cap it, and mix it again by shaking vigorously for approximately 1 minute, then let stand until the bubbles clear. The buffer is ready for use.
3. Next, carefully add approximately one-third of the required water to the indicator reagent bottle, cap the bottle securely, and mix it by shaking for approximately 5 to 10 minutes. It is likely there will still be solid material in the bottle. Add another one-third of the required water and mix again for 5 to 10 minutes. There should be little-to-no solid material left in the bottle. If necessary, mix for an additional 5 to 10 minutes.
4. Transfer the contents of the DPD (brown glass) bottle into the indicator reagent bottle, minimizing the amount of material left in the brown bottle. Cap securely and shake the indicator bottle, at which time the color should begin to darken slightly.
5. Carefully add the final amount of water to reach the fill line of the indicator reagent bottle, cap securely and mix again, then let stand until bubbles clear. The Indicator reagent is ready for use.
6. After mixing, the reagents have a shelf life of 30 days at room temperature and 90 days refrigerated at 25 °C.

## Installing The Reagents

1. Replace the plain bottle cap with the buffer reagent bottle cap (with siphon tube and barbed fitting) and place the prepared, colorless buffer in the right bottle bay of the 3017M.
2. Replace the plain bottle cap with the indicator reagent bottle cap (with siphon tube and barbed fitting) and place the prepared, slightly-colored indicator in the left bottle bay of the 3017M.
3. Carefully connect the pump tubing from the rear reagent pump cassette to the barb on the indicator reagent bottle and do the same for the front cassette tube with the buffer bottle.
4. Replace the bottle retaining plate to secure the bottles.



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Drawing Item Number: 330030