



# Liqui-PREP™

## The Next Generation of Liquid Cytology

### Manual Technical Tips

**TIP Number:** 006

**Subject:** Minimizing Red Blood Cells in Cytology Specimens

#### **TECHNICAL TIP OVERVIEW:**

Small to moderate amounts of red blood cells in a specimen have little or no effect on the quality of the Liqui-PREP™ processed slides. This is due to dilution during encapsulation and the slightly lytic nature of the Liqui-PREP™ Preservative Solution.

However, some specimens have copious amounts of red blood cells which overwhelm the Liqui-PREP™ Preservative Solution's ability to lyse red blood cells. Proper use of the Liqui-PREP™ Lytic Reagent is effective at lysing red blood cells and therefore minimizing red blood cell presence.

**NOTE:** Technical Tips are intended to be suggested guidelines for handling cytology specimens. The Laboratory Professional may use these guidelines or make modifications as needed to process a given specimen.

#### **Liqui-PREP™ LYTIC REAGENT USE:**

The Liqui-PREP™ Lytic Reagent is a strong lytic reagent. The lytic effect is limited to red blood cells, however, if used undiluted, after lysis, the lytic reagent will start to precipitate the lysed red blood cells.

The Liqui-PREP™ Lytic Reagent is used during Specimen Preparation. After receipt of the bloody cytology specimen The following options can be selected:

- Centrifuge the specimen at ~800 to ~1,000xg for 10 minutes. Then decant the supernatant.
- Add a new diluent of 50% Liqui-PREP™ Lytic Reagent and 50% Liqui-PREP™ Preservative Solution to the decanted specimen.
- Mix well and allow to stand for ~5 to ~10 minutes.
- Centrifuge the specimen at ~800 to ~1,000xg for 10 minutes. Then decant the supernatant.
- Add Liqui-PREP™ Preservative Solution to the decanted specimen. Mix well and allow to stand for ~10 to ~15minutes prior to continuing with processing the specimen.

Vial Option:

- Open the vial and pipette ~5 to ~7ml of Liqui-PREP™ Lytic Reagent into the cells and preservative solution.
- Mix well and let stand for ~5 to ~10 minutes.
- Centrifuge the specimen at ~800 to ~1,000xg for 10 minutes. Then decant the supernatant.
- Add Liqui-PREP™ Preservative Solution to the decanted specimen. Mix well and allow to stand for ~10 to ~15minutes prior to continuing with processing the specimen.

Any questions, contact your local Liqui-PREP™ representative or:

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