

INTENDED USE:

This general cytology processing kit has a core purpose of collection and processing of respiratory cytology specimens, such as Sputum and Bronchial specimens resulting in a representative sampling of cells being encapsulated on a clean glass microscope slide for staining, reading and diagnosis by a trained professional.

SUMMARY AND EXPLANATION:

Specimens are collected into Liqui-PREP™ Respiratory Collection Vials. These specimens are preserved and processed using classical laboratory methods to produce specimen microscope slides to be stained and read.

MATERIALS REQUIRED:

- Product Number: **80-2050 Liqui-PREP™ Respiratory Processing Kit** - 48 Processes per kit

Contains:

- 48 Liqui-PREP™ Respiratory Collection Vials - For collection and preservation of Respiratory Specimens.
- 1 30ml bottle (29ml Fill) of Liqui-PREP™ Cellular Base Solution - For encapsulation of cells on a microscope slide.

- Accessory Products:

Product #: 80-0050 Liqui-PREP™ Respiratory Collection Vials - For collection and preservation of respiratory specimens.

Product #: 70-500 Liqui-PREP™ Cleaning Solution - For minimizing specimen mucous, etc.

Product #: 80-1000 Liqui-PREP™ Lytic Reagent - For minimizing specimen red blood cells.

Product #: 60-1000, 60-2000, 60-4000 - Liqui-PREP™ Preservative Solution - Used as a working preservative solution for specimen preparation during processing.

- Centrifuge Tubes: 50ml Plastic Capped Centrifuge Tube and 15ml Plastic Centrifuge Tube
- Glass Microscope Slides
- Pipettes and tips for processing (50ul pipette and adjustable pipette 100ul to 1,000ul)
- Swinging Bucket Centrifuge (up to 1200xg)
- Vortex Mixer (minimum of 1,000 RPM)

STABILITY:

- Supplied reagents and solutions are stable until the labeled expiration date at 10°C to 30°C (ambient).
- Specimens collected in the Liqui-PREP™ Preservative Solution are stable for 30 days at 10°C to 30°C. (ambient)

WARNINGS:

- The Liqui-PREP™ solutions and reagents are not intended for human consumption.
- Airborne Pathogen Safety Procedures should be followed when processing respiratory specimens.



PROCEDURE:

1. Collection:

Up to 15ml of fresh patient sputum is collected directly in to the Liqui-PREP™ Respiratory Collection Vial by expectorating directly into the Liqui-PREP™ Respiratory Collection Vial. The capped, labeled patient specimen is sent to the laboratory for processing.



2. Specimen Preparation:

- The specimen must be preserved in Liqui-PREP™ Respiratory Collection Vials for at least 1 hour prior to processing.
- Pipette 8ml of Liqui-PREP™ Cleaning Solution into a labeled 50ml centrifuge tube with a cap.
- Mix the specimen in the Liqui-PREP™ Respiratory Collection Vial well and pour the total specimen into the labeled 50ml centrifuge tube.
- Cap the 50ml centrifuge tube and centrifuge it at ~1,000xg for ~10 minutes.
- Decant the supernatant from the 50ml centrifuge tube by inverting to decant.
- Pipette 4ml of Liqui-PREP™ Cleaning Solution into a labeled 15ml centrifuge tube.
- Using 3ml or 4ml aliquots of Liqui-PREP™ Preservative Solution, rinse the 50ml centrifuge tube cellular pellet into the labeled 15ml centrifuge tube.

3. Concentration and/or cleaning:

Liqui-PREP™ Manual Processing:

- Centrifuge the 15ml centrifuge tube at ~800xg for ~10 minutes.
- After centrifugation, decant the supernatant by inverting the centrifuge tube, resulting in a cellular pellet.

Auto-LP™ Processing:

- Centrifuge the 15ml centrifuge tube at 500xg to 600xg for ~10 minutes.

NOTE: DO NOT Poured off the supernatant. Place the centrifuge specimen centrifuge tube directly onto the Auto-LP™ for Processing the specimen. (see the Auto-LP™ Users Manual for further instructions)

4. Encapsulation and Slide Production: (Manual Processing)

- Pipette 300ul or 400ul of Liqui-PREP™ Cellular Base Solution into a labeled test tube to be used as a "Working Tube".
- Decant the supernatant from the cellular pellet by inverting the tube, leaving a wet pellet.
- Mix the decanted specimen pellet in the centrifuge tube well using a vortex mixer.
- Withdrawal a 50ul aliquot of the well mixed pellet into the "Working Tube".
- Mix the "Working Tube" is mixed well using a vortex mixer.
- Withdrawal a 50ul aliquot of the well mixed "Working Tube" and apply the sample onto a microscope slide.
- Allow the microscope slide to dry, then stain and read the slide.

Minimizing Red Blood Cell on the specimen slide:

The specimen can be treated for red blood cells when the specimen is in either the 50ml centrifuge tube or the 15ml centrifuge tube.

50ml centrifuge tube:

After the specimen has been poured into the 50ml centrifuge tube, pipette 7ml to 9ml of Liqui-PREP™ Lytic Reagent into the 50ml centrifuge and mix well.

Allow 5 to 10 minutes for red blood cell lysis before centrifugation. Then follow the processing procedure as normal.

15ml centrifuge tube:

Prepare a 1:1 dilution with Liqui-PREP™ Preservative Solution and Liqui-PREP™ Lytic Reagent. Use this solution to rinse the cells from the 50ml centrifuge tube and mix well.

Allow 5 to 10 minutes for red blood cell lysis before centrifugation. Then follow the processing procedure as normal.

NOTE: Red Blood Cell treatment can be performed in both the 50ml and 15ml centrifuge tube on a given specimen when there is a large amount of blood in the specimen.

Visit www.liquipreagents.com for Technical Tips or other frequently asked questions.

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