

Large Volume Manual Cytology Processing Visual Aid

This Document is intended as a quick reference guide for a manual method used to process Large Volume Specimens preserved with **Liqui-PREP® Preservative Reagents**.

This is only a guide to obtain the intended results for general cytology. Protocols can vary depending on the needs or requirements of each individual Laboratory. Please contact LGM International Inc. for recommendations when specific results are needed.

NOTE: Molecular Triage is not compatible with specimens after the addition of Liqui-PREP® Cellular Base Solution. This method retains an ideal specimen aliquot in the 15ml Centrifuge tube that is compatible with a wide variety of analysis and genetic testing.

For detailed instructions, please read this **Liqui-PREP® TIPS** tech tip (**LT0004**) found on our website:
www.liquiprepreagents.com.

<p>1. Mix original specimen container well. Combine Liqui-PREP® Preservative Solution and the Specimen at a 1:1 ratio in a 50ml centrifuge tube, and mix well. Let the cells fix and preserve for at least 1 hour.</p>	<p>2. Mix preserved specimen well. (using a Vortex Mixer for 30 seconds to 1 minute)</p> <p>Pipette or pour 50ml of the preserved and mixed specimen into each 50ml Centrifuge Tube. (2 or more tubes are needed for concentration if the specimen has low cellularity.) (use Liqui-PREP® Cleaning Solution or Lytic Reagent if needed)</p>	<p>3. The Specimens should be centrifuged at ~1000xg for ~10 minutes. Decant the supernatant by carefully inverting the 50ml Centrifuge Tubes. (Do Not Shake)</p>	<p>4. Mix the Centrifuge Tube Pellet well to create a homogeneous suspension.</p>	<p>5. Pour the mixed pellet from the 50ml C-tubes into a single 15ml C-tube. Then rinse the 50ml tubes into the 15ml tube a few times using Liqui-PREP® Preservative Solution to collect any remaining cells. (Use up to 6ml of Liqui-PREP® Preservative Solution for rinsing.)</p>	<p>6. Centrifuge the specimen in the 15ml C-tube again at ~1000xg for ~10 minutes</p>
<p>7. Decant the supernatant by quickly inverting the 15ml Centrifuge Tube. (Do Not Shake)</p>	<p>8. During Centrifugation, Pipette 200-400µl of Liqui-PREP® Cellular Base Solution into the Working Tube. (1ml Pipette Tip)</p>	<p>9. Mix the Centrifuge Tube Pellet well with a Vortex Mixer to create a homogeneous suspension.</p>	<p>10. Immediately following mixing, Pipette 50µl of the well mixed Pellet into the Working Tube. Then Mix the Working Tube well with a Vortex Mixer for ~10 seconds. (100µl Pipette Tip)</p>	<p>11. Use Reverse Pipetting to Aspirate >50µl into the Pipette Tip. Then Deposit only 50µl onto the middle of the inoculation circle on the Microscope Slide. Spread the aliquot to the edges of the circle. Allow the Slides to Dry, then Stain and Read. (100µl Pipette Tip)</p>	<p>NOTE: Processing Large Volume Specimens this way will retain cells in the Centrifuge Tube that are not yet encapsulated and can be used for molecular triage.</p>

MANUFACTURER:
LGM International, Inc.
285 North Drive, Suite A
Melbourne, Florida 32934 U.S.A.
Telephone: (321) 254-0480
Fax: (321) 254-0481
Website: www.liquiprepreagents.com
Orders: www.Sales@LPALP.com

EU Representative:
Welkang Ltd.
The Black Church, St. Mary's Place
Dublin 7, D07 P4AX
Dublin, Ireland
Tel: +44 (20) 30869438 & 32876300
Fax: +44 (20) 76811874
Web: www.CE-marking.eu
Email: AuthRep@CE-marking.eu

Quality and Warranty:
All Liqui-PREP® reagents are manufactured under an audited ISO 13485:2016 Quality System.
When transported and stored properly, Liqui-PREP® reagents are warranted for 4 years from the date of manufacturing.
LGM International, Inc. disclaims all warranties, express or implied, including any implied warranties of commercialization and fitness for a particular use. LGM International shall not be liable for any incidental or consequential damages.

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