

## Global Access to High-Quality PBMCs

*A global network of highly-trained staff to isolate PBMCs per client-specific protocols and SOPs.*

In the rapidly evolving landscape of biopharma drug development, the need for precise, reliable, and scalable cellular resources has never been more critical. At MLM Medical Labs, we specialize in providing high-quality Peripheral Blood Mononuclear Cells (PBMCs) to support cutting-edge research and development across a variety of therapeutic areas.

### Flexibility and Agility for Full Customization

Our PBMC lab services are meticulously tailored to your study demands and SOPs. Isolation protocols are designed to suit the specific needs and complexities of your study, ensuring precise and reliable results for every project.

#### PBMC Isolation Services

- PBMC isolation, liquid nitrogen biobanking
- Same-day processing (goal = 5 hours from receipt)
- Sample processing on 4 continents
- Customized SOPs to meet your study-specific requirements
- DNA/RNA extraction and assessment of quantity, quality, and purity of specific cell subsets

#### Sample Collection Tubes Used

- Whole Blood Tubes
- EDTA
- LiHep
- CPT System Tubes
- ctDNA/cfDNA Streck Tubes
- Sodium Citrate
- ACD-A
- PAXgene Tubes

### PBMC Data Quality

Viability

>95%

Post Thaw Viability

>80%

### PBMC Biobanking and Comprehensive Analytical Assays

Regarding downstream analysis of isolated PBMCs, MLM provides liquid nitrogen biobanking, cryopreservation and offers a broad portfolio of analytical techniques, ranging from harmonized flow cytometry, genetic analyses to ELISA-based assays.

### Specialized Expertise and Localized Support

- All MLM Labs and PBMC Network labs are staffed with highly-trained local experts and technical support teams who understand regional regulations, logistical challenges, and specific client needs.
- All lab personnel undergo comprehensive training to ensure seamless integration of PBMC isolation services into global clinical workflows.

## The MLM Global PBMC Network

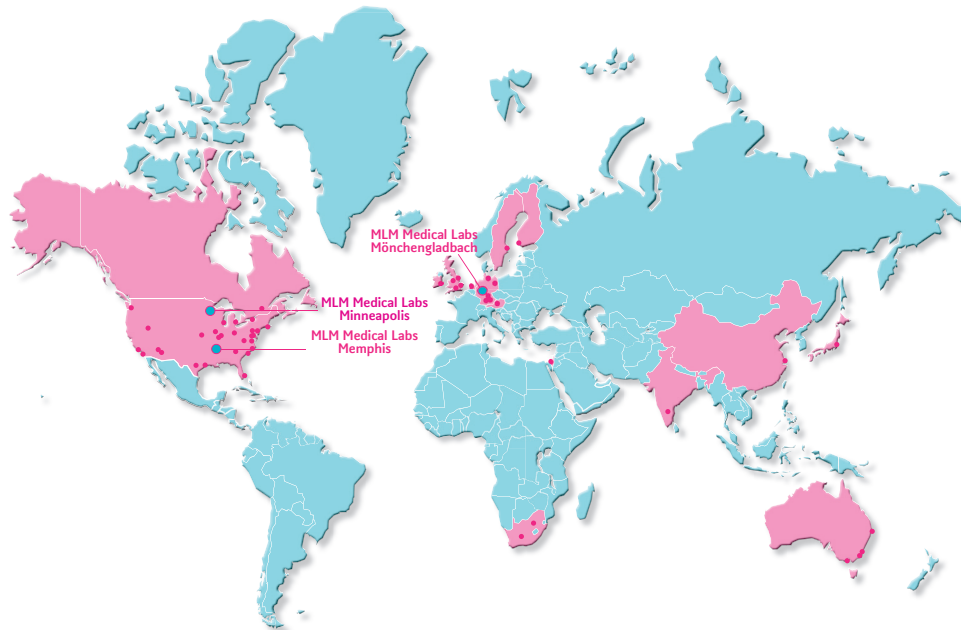
In addition to our state-of-the-art PBMC processing labs in the U.S. and Germany, MLM has developed a carefully selected and meticulously screened network of partner labs **across 4 continents** to ensure rapid isolation turnaround times to meet your study demands

### United States

AZ - Tempe  
 CA - Los Angeles, San Diego  
 FL - Miami  
 IL - Chicago  
 KS - Kansas City, Wichita  
 KY - Lexington; MA - Norton  
 MD - Frederick, Rockville  
 MI - Detroit  
 MN - Minneapolis  
 MO - Springfield  
 MS - Columbia  
 NC - Research Triangle Park, Winston-Salem, Wilmington  
 NV - Las Vegas  
 NY - Pearl River, Rochester  
 PA - Philadelphia  
 TN - Knoxville, Memphis  
 TX - Houston, San Antonio  
 VA - Richmond  
 WA - Seattle

### Canada

QC - Montreal



### Europe

Austria - Wörgl; Finland - Turku  
 Germany - Berlin, Heidelberg, Ingolstadt, Kiel, Mönchengladbach, Taunusstein  
 Ireland - Dublin  
 Netherlands - Leiden  
 Sweden - Stockholm  
 UK - London, Manchester, Royston, York

### Middle East

Israel - Herzliya Pituach

### Africa

South Africa - Cape Town, Pretoria

### Australia

Botany, Sydney, Brisbane, Bayswater

### Asia

China - Shanghai  
 India - Bangalore  
 Japan - Tokyo

## Consistency and Reliability Across Borders

- Our collection and processing operating procedures are customized across all laboratory sites to meet the client's SOPs. **Strict adherence to the study's SOPs and rigorous quality control ensures uniformity in PBMC isolation and handling**, regardless of where the samples are collected.
- MLM Medical Labs is **GCLP-compliant and maintains CLIA, CAP, and ISO accreditations and certifications**, along with strict adherence to global regulatory standards, providing confidence to sponsors that their samples are processed consistently worldwide.

## Scalable Solutions for Global Clinical Trials:

- MLM's Global Logistics Department, in coordination with our Global PBMC Network, can manage high volumes of samples across different regions, based on extensive experience managing PBMC processing for global, multi-center clinical trials.
- MLM is highly regarded for operational flexibility and scalability and supports complex projects from early-phase trials to late-stage studies.

## Customized Shipping and Handling Solutions

The MLM Global Logistics department designs tailored shipping solutions for each study that prioritize sample integrity, leveraging state-of-the-art cold chain logistics and temperature-controlled packaging to minimize sample degradation during transit.