



Life Pack Labs

A MOCON® Inc./ Life Packaging Technology Business

Expert services for healthcare/medical/ pharmaceutical PACKAGING

- Medical Device
- Biologics
- Pharmaceuticals
- Combination Products
- Food
- Nutraceuticals
- Electronics
- Nanotechnology

Life Packaging Laboratories: A unique packaging testing laboratory. Our new business brings together MOCON®'s signature brand of packaging permeation and integrity equipment and testing with Life Packaging Technology's expertise in design, testing and validation of packaging systems for sterile and non-sterile medical devices, biotechnology and pharmaceutical products. This partnership provides powerful technology solutions for your business needs with a focus on cost effective, expedient results.

Technology Solutions To Solve Your Toughest Packaging Challenges

TESTING SERVICES

- Gas permeation rates: film and whole package
 - Water- ASTM E96, E398, F1249, D6701
 - Oxygen- D3985, F1307, F2622, F1927
- Moisture permeation testing: US Pharmacopoeia (USP) <671> Containers - Performance Testing
- Package integrity, leak, pressure decay- ASTM F 2095
- Burst Testing, restrained packages - ASTM F 2054
- Burst and Creep Testing, unrestrained packages - ASTM F 1140
- Accelerated, and real time aging – ASTM F 1980
- Package integrity via bubble leak, bubble emission and dye penetration – ASTM F2096, ASTM F3039, D3078 and F1929
- Environmental conditioning via heat and humidity
 - ASTM D4332
 - ASTM F2825
 - ASTM E 171
- Seal Peel Strength – ASTM F 88
- Materials properties testing: tensile and compression modes – ASTM D882, D638, D3420, F1306, D1709
- Thermal performance testing: temperature profiles – ISTA 7E, custom
- Vacuum drying and vacuum leak – ASTM D6653
- High altitude, low pressure – ASTM D4169, Schedule I

PACKAGING DEVELOPMENT SUPPORT

- ISO 11607, parts 1 and 2 consulting
- Packaging specification development
- Barrier packaging: moisture, oxygen, CO₂, shelf life, shelf life modeling, leak
- USP, PDA and ICH Guidelines consulting
- Anti-counterfeiting/brand protection, testing support
- ASTM and ISTA testing guidance
- Temperature controlled packaging
- EU Directives – Waste and Packaging and the Environment
- Sustainability consulting

PACKAGING VALIDATION AND COMPLIANCE SUPPORT

- ISO 11607, parts 1 and 2
- Test Equipment and Packaging Equipment, IQ/OQ/PQ protocols and reports
- Test Equipment and Packaging Equipment: Test Method Development and Validation
- Cold Chain, temperature controlled packaging validation
- DOE's

TECHNOLOGY SUPPORT SOLUTIONS

- Sterilization and materials compatibility
- Packaging research for high performance requirements including electronics packaging and nanotechnology products packaging

WHY LIFE PACKAGING LABORATORIES?

Simply, our technical and business expertise: decades of packaging industry technology experience from professionals who have spent their careers providing packaging technology solutions for the industry's most demanding packaging challenges. We provide the true consultative edge that sets us apart from all other laboratories.

LABORATORY EXPERTISE

MOCON®, a permeation and barrier packaging testing leader, and Life Packaging Technology, sterile barrier and pharmaceutical packaging experts, provide an unparalleled team of experts to design, develop, trouble shoot and validate your packaging system with our suite of testing services and equipment.

THOUGHT LEADERS

Our team leads the industry with packaging technology knowledge, proven successes and expertise, and a comprehensive network of experts. If we cannot solve your problem, we know who can.



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**We are the Solutions Experts
used by Your Industry Peers.**

How Can We Help You?