J-Pac Medical Safe-Seal Frangible Seal Technology for Diagnostics Applications

MAJOR APPLICATIONS

+ **Point-of-Care Diagnostics and Lateral Flow Formats**
+ **Microfluidics, Lab-on-a-Chip Platforms**
+ **Microbiology and Molecular Diagnostics**

COMPANY OVERVIEW

Year Founded: 1984
Number of Employees: 100 – 125
Number of Facilities: 2
Headquarters: Somersworth, NH

+ **Precise Unit-of-Use Volume** – Only the volume required for the test is stored
+ **Easy Integration with Test Platforms** – Actuation accomplished manually or by using automation
+ **Cost Savings** – Provides an economically-efficient way to develop evolving near-patient diagnostics solutions
+ **No Instrument Contamination** – Precise controlled release to required location
+ **Reproducible** – Accurate filling and dispensing by design; single or multiplex options
+ Blisters offer **optimal protection** and prevent gas exchange compared to on-board storage in plastic or messy drop applicators
+ **Volume range 30 µl – 5,000 µl** for single-dose reagents

J-Pac Medical's Safe-Seal Frangible Seal Technology is an elegant and cost-effective solution to reduce test complexity by storing and enabling the controlled release of testing reagents, eliminating the need for complex fluid handling. Using differential weld strengths designed to fail under specific pressure, such unit-of-use reagent reservoirs can be customized to interface with a variety of different diagnostic test platforms.

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ISO 13485 Registered

FDA

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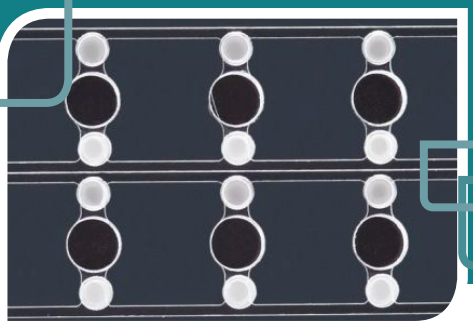


Point-of-Care testing devices are an excellent example of where Safe-Seal can result in potential improvements and faster test results. By making these devices more cost effective, reproducible and less complex, patient outcomes are improved and clinicians have a high confidence in the test results. J-Pac Medical's frangible seals are easily integrated into lateral flow devices.

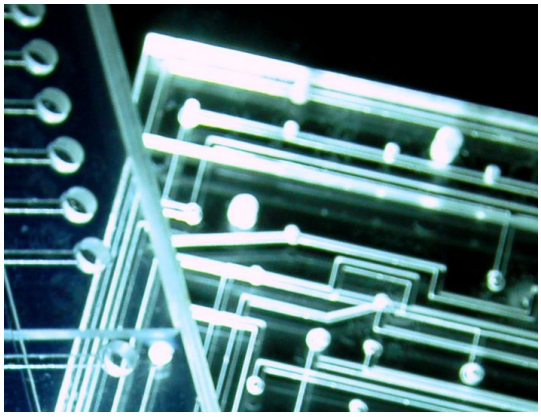
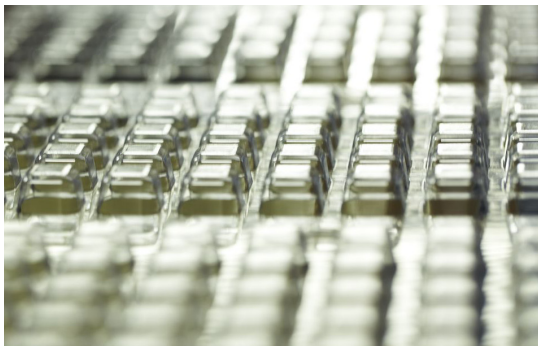


Photo courtesy of ALine, Inc., www.alineinc.com

Microfluidic and Lab Chip/Card formats are easily integrated with single and multiple blister packs, providing precise and accurate delivery to small targets, chambers and wells associated with microfluidic applications. Powders and beads, as well as mixed reagents, buffers and solvents can be used with J-Pac Medical's blister technology.

For **Microbiology and Molecular Diagnostic Applications**, blister packaging is an increasing format choice by virtue of aseptic filling. It also provides a sterile barrier that extends stability and is easily accessed. Because the directional flow can be controlled, the chances for contamination are reduced, and J-Pac Medical selects the best materials for long-term storage and stability.



J-Pac Medical is ISO 13485:2003 Certified, FDA Registered, and DEA Certified to handle Schedule III Active Pharmaceutical Ingredients. With over 60,000 sq. ft. of manufacturing space, including nine ISO Class 7 clean rooms and two ISO Class 8 clean rooms, J-Pac Medical also features an Innovation Prototyping Center and Analytical Testing Lab. The highly automated production methods at J-Pac Medical ensure precise reagent filling for single and multiple-well formats; our high quality standards assure customers that we will meet their unique product specifications every time. Whether customers need 10,000 or ten million reagent blisters, J-Pac Medical designs, validates and produces to meet their requirements on site.

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