

AccuLift LCM GeckoGrip Caps



AccuLift™ LCM GeckoGrip™ Caps are designed to overcome the challenges of traditional LCM, giving you the best possible lift of your microdissected tissue. Unlike traditional laser capture microdissection caps, our proprietary micropatterned cap surface with GeckoGrip feet offers superior contact with your sample, dissecting without tearing, even for the most challenging samples (Figure 1). Dissect with confidence that every pulse will extract the tissue it touches, limiting the time you spend harvesting cells (Figure 2).

Problem: Variation in tissue prevents the entire capturing surface of a traditional LCM cap from contacting the tissue surface. Instead, caps touch only the tissue “mountains” while failing to contact the “valleys.” This leads to poor recovery of the targeted tissue area.

Solution: New AccuLift LCM GeckoGrip Caps can accommodate the uneven tissue surface and reach into the valleys and crevasses on the tissue to overcome this challenge.

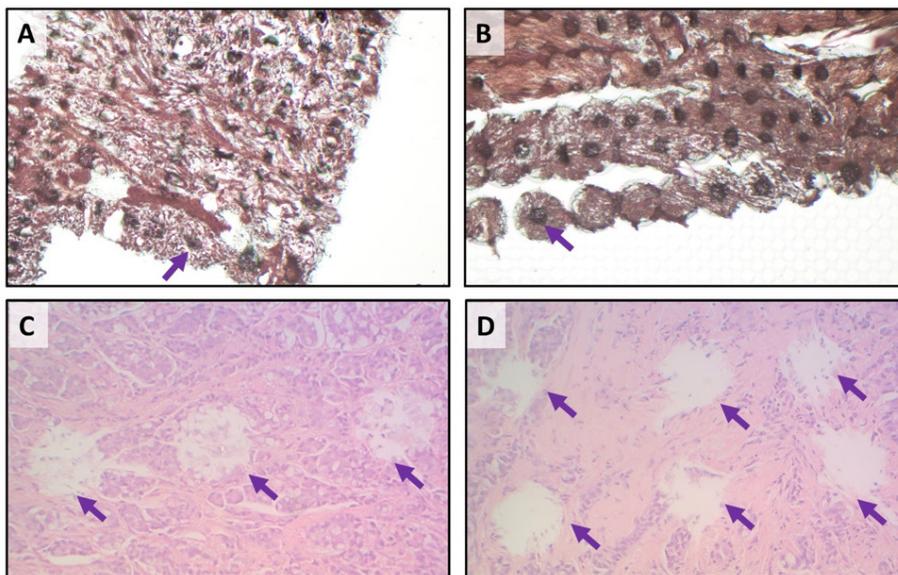


Figure 1. New AccuLift LCM GeckoGrip Caps show greater than 90% tissue recovery versus 60% for traditional flat LCM caps, even with fibrous stromal tissue. A) Microdissected breast cancer fibroblasts using a traditional flat LCM cap results in incomplete tissue recovery per laser spot at the site indicated by the purple arrow. **B)** Microdissected breast cancer fibroblasts using the AccuLift LCM GeckoGrip Cap show complete tissue recovery per laser at the site indicated by the purple arrow. **C)** Tissue post-microdissection, traditional LCM cap. **D)** Tissue post-microdissection, AccuLift LCM GeckoGrip Cap (work performed by Dr. Amanda Haymond at George Mason University under the direction of Dr. Lance Liotta).

Highlights

Unique — GeckoGrip microscopic feet on the AccuLift LCM GeckoGrip Cap feature a proprietary micropatterned surface inspired by gecko feet.

Flexible — Designed to work with all IR LCM systems and dual IR/UV LCM systems.

Precision — Increased precision of dissection with each laser pulse, even for challenging tissue types such as tumor stroma or skin and frozen or FFPE tissue sections.

Recovery — Maximum tissue recovery with GeckoGrip cap versus a major competitor’s cap.

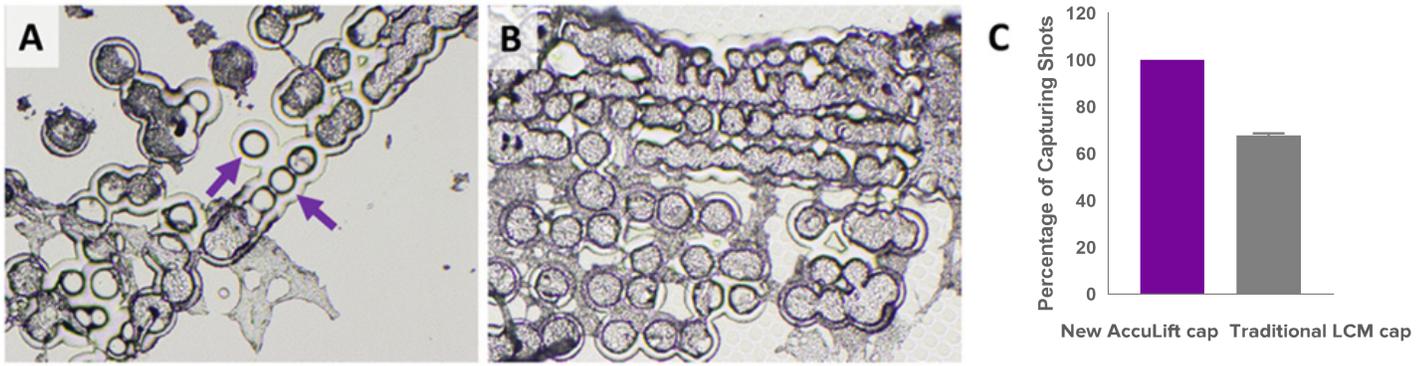


Figure 2. New AccuLift LCM Caps with GeckoGrip feet show a 32% increase in capture efficiency over traditional flat LCM caps. A) Human colon carcinoma microdissected with traditional flat LCM cap shows many laser shots, such as those marked with purple arrows, that fail to pick up any tissue. B) Human colon carcinoma microdissected with the AccuLift LCM GeckoGrip Cap shows that every laser shot productively captured the desired tissue. C) Out of 148 shots across three LCM caps per group, an average of 68% of laser shots captured some quantity of tissue with traditional LCM caps. By comparison, every laser shot with AccuLift LCM GeckoGrip Caps showed capture of tissue (work performed by Dr. Amanda Haymond at George Mason University under the direction of Dr. Lance Liotta).

The AccuLift Advantage

AccuLift LCM GeckoGrip Caps provide superior precision, sensitivity and flexibility, with a 76% increase in surface area per laser shot as compared to regular caps. Each AccuLift LCM GeckoGrip Cap has over 1,000 unique microscopic GeckoGrip feet per mm² of cap surface to maximize tissue recovery.

Dissect with confidence that every pulse will extract the maximum amount of tissue it touches, limiting the time you spend harvesting tissue and getting the most out of your samples.

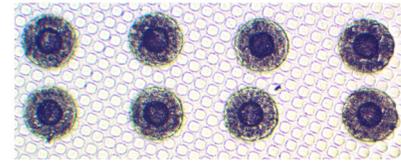


Figure 3. Consistent, complete captured tissue content using AccuLift LCM Caps with GeckoGrip feet results in more accurate assessments of tissue capture based on a number of laser pulses fired. Tissue captured with each laser shot using AccuLift LCM GeckoGrip Caps is reproducible and precise, while GeckoGrip feet are easily visible and of consistent size and density across the cap surface.

Product Configurations and Ordering Information

| Product | Quantity | Catalog Number |
|-------------------------------|----------|----------------|
| AccuLift™ LCM GeckoGrip™ Caps | 24 Pack | 10004 |

Optional Materials

| Product | Quantity | Catalog Number |
|---|------------|----------------|
| AccuLift™ Ultra-sensitive RNA Amplification Kit for LCM | 10 Samples | 10007 |
| AccuLift Rapid RNA Extraction Kit for LCM | 50 Samples | 10006 |
| AccuLift First-Strand cDNA Synthesis Kit | 50 Samples | 10008 |
| AccuLift RNA Spin Column Micro Prep Kit | 50 Samples | 10010 |
| AccuLift DNA FFPE/Frozen Extraction Micro Prep Kit | 50 Samples | 10011 |
| AccuLift RNA Clean Up and Concentrator Kit | 50 Samples | 10012 |
| AccuLift LCM Release Slides | 10 Pack | 10005 |

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