

# OPTIMIZING OPHTHALMIC DRUG DELIVERY

## ► THE PROBLEM

Today's standard eyedrop bottles deliver 5x more liquid than the eye can absorb. This leads to **off-target exposure, worsened side effect profiles, increased preservative load, unnecessary waste, and ultimately, poor patient adherence and truncated life-time value** — a decades-long problem that remained unsolved — until now.

## ► THE PROVEN SOLUTION

Nanodropper launched with a simple mission: optimize topical drug delivery. The first micro-volume delivery (MVD) product is an FDA-listed adaptor that dispenses 10 - 15uL droplets. It has been validated through 5 randomized controlled trials and is now trusted by tens of thousands of patients, providers, and payers across the U.S. to enhance market access, minimize systemic exposure, and improve comfort.

## ► THE NEXT STEP FORWARD

With proven success in the market, we are expanding our platform to directly support pharmaceutical innovators. Our turnkey micro-volume delivery (MVD) devices integrate seamlessly into novel drug development programs — helping partners unlock greater clinical and commercial value from day one.

By adopting MVD technology early, you can:

**Elevate patient experience:** Improve comfort, safety, and adherence by delivering the optimal dose every time.

**Maximize therapeutic potential:** Reduce off-target exposure to enhance efficacy and tolerability.

**Drive operational efficiency:** Cut material waste and lower cost per unit throughout supply chain.

Together, we can transform topical ophthalmic delivery — aligning patient needs with manufacturer goals to create longer-lasting impact across the entire value chain.

## MVD SOLUTIONS



JT2

Custom OEM tip for traditional 3-piece squeeze-type bottles. Compatible with commercially-available multi-dose bottles & caps.



MuVEYE

Custom single-use blow-fill-seal packaging. Compatible with preservative-free formulations.



MuMIST

Tech-enabled, cartridge-based, horizontal drug delivery system leveraging VuTRACK monitoring. Compatible with preservative-free & temperature-sensitive formulations.



VuTRACK

Optical-based true adherence tracking system for all micro-volume delivery devices. Powered by AI with live on-target feedback and data output.



Contact [BD@nanodropper.com](mailto:BD@nanodropper.com) or call (507) 405-5676 Ext.4 for more information.

Visit [mumedical.com/OEM](https://mumedical.com/OEM) to explore our Micro-Volume Delivery products.

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