



Efficient, Versatile Delivery with Controlled Particle Dispersion

Controlled Particle Dispersion (CPD)™ from Kurve Technology offers pharmaceutical and health & beauty companies a way to deliver virtually any liquid formulation via a controlled, turbulent flow. With proven results in numerous clinical trials and scientific studies, CPD gives companies an attractive alternative to antiquated spray valve delivery systems.

CPD: A Versatile Delivery System

With CPD, Kurve can customize a delivery system to fit your product's requirements across a wide range of pharmaceutical, OTC and cosmetic applications. Our droplet generator is so sophisticated that the size of the droplets for any liquid, regardless of viscosity or surface tension, can be controlled one micron at a time with proven success up to 2,000 centipoise (cp) of viscosity. By way of comparison, the current valve-based technologies cannot produce droplets smaller than 50 microns and can only consistently deliver up to 5cp of viscosity.



Adjustable design parameters include:

- Droplet size
- Droplet trajectories
- Turbulent flow characteristics
- Droplet velocity
- Electronic controls including metered dose, lock outs, and history
- Treatment times
- Fill volume
- Multiple droplet generators
- Targeted deposition
- Single or dual nostril delivery

In addition, CPD can administer a wide variety of solutions and suspensions, live and inert vaccines, proteins, peptides, and monoclonal antibodies with varying surface tension and viscosity profiles. There is even potential for dry powder delivery.



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One Technology, Many Applications

In addition to the ability to deliver prescription and over-the-counter products via the eyes, skin, nose, throat, mouth and lungs, CPD is perfectly positioned for nose-to-brain delivery. Nose-to-brain applications include therapies for Alzheimer's, Parkinson's, multiple sclerosis, brain tumors, diabetes, schizophrenia, etc. Devices incorporating CPD technology are the only systems that have reached the nose-to-brain conduit of the olfactory region in clinical testing. And CPD is the only delivery technology to show statistically-relevant improvement in Alzheimer's patients in a nose-to-brain clinical trial.

CPD is also well-suited to delivery of health and beauty products. CPD can deliver everything from highly-viscous cosmetic foundations to time-release vitamins to essential oils. The technology's high viscosity capability gives the ability to apply liquids that valve technologies cannot.



CPD Business Advantages

Using devices with CPD affords you a vast number of short-term through long-term business opportunities:

- Extension of patents for expiring formulations
- Branding of OTC products in combination with a CPD delivery system
- Differentiation of cosmetic products in both form and function
- Delivery of chemical entities that cannot be dispensed with current technologies

About Kurve Technology

Founded in 2001, Kurve Technology, Inc. designs and develops droplet delivery devices for pharmaceutical and consumer products. Kurve's primary industry is ocular, nasal, CNS (nose-to-brain) dermal, transdermal, oral (throat/mouth) and pulmonary delivery of prescription and OTC liquid drugs. Additional applications include delivery of health & beauty products such as liquid foundation, fragrances, anti-aging, skin care, spray tanners, colored cosmetics, etc. Controlled Particle Dispersion® (CPD) technology's flexibility of design in droplet generation and controlled, turbulent flow is the driver behind applications in these distinct business segments. Kurve is headquartered in Lynnwood, WA. Visit www.kurvevtech.com for more information.

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