Controlled and Zero Flow CE Capillaries Only Available in 1 Meter Length - Tech Information

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Overview

This technical note explains why MICROSOLV's Controlled-Flow and Zero-Flow CE capillaries are offered exclusively in 1-meter lengths. These capillaries use an internal bonded or coated layer that enables controlled-flow performance, but applying that coating uniformly inside extremely narrow capillaries—typically 50 µm or 75 µm ID—poses significant manufacturing challenges. Extending the coated length beyond 1 meter reduces reliability and coating consistency.

As a result, the 1-meter format ensures product quality, reproducibility, and stable performance in CE applications.

Controlled and Zero-Flow CE Capillaries Only Available in 1-Meter Length

Controlled-Flow and Zero-Flow CE capillaries with bonded or coated internal surfaces are available only in 1-meter lengths.

The reason for this limitation is the difficulty of pushing the internal bonding reagent through very small-diameter tubing—typically 50 µm or 75 µm ID—while achieving a consistent and properly formed coating. Over distances longer than 1 meter, maintaining coating uniformity becomes unreliable, which can affect performance and quality.

Providing these capillaries in a 1-meter format ensures consistent flow characteristics, stable internal coating, and dependable CE results.

Click *HERE* for ordering information for Controlled-Flow and Zero EOF Capillaries.

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