

Identification of Adeno-Associated Virus Capsid Proteins using PATsmart™ ZipChip® CE/MS

Technical Note

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Abstract

A simple and rapid identity test of adeno-associated virus (AAV) serotypes is important for supporting the AAV gene therapy development, as it relates to its efficacy and safety. The current mass spectrometry-based identity tests require extensive sample preparation steps, relatively large sample quantities and long analysis time. Herein, we describe a simple and novel microfluidic PATsmart™ ZipChip® CE/MS method used to characterize AAV capsid proteins. The three capsid proteins of AAV2 were separated and identified within 4 min using 5 nL of sample directly from a polysorbate-containing formulation buffer. This rapid method can be suitable to confirm AAV serotype identity.

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