

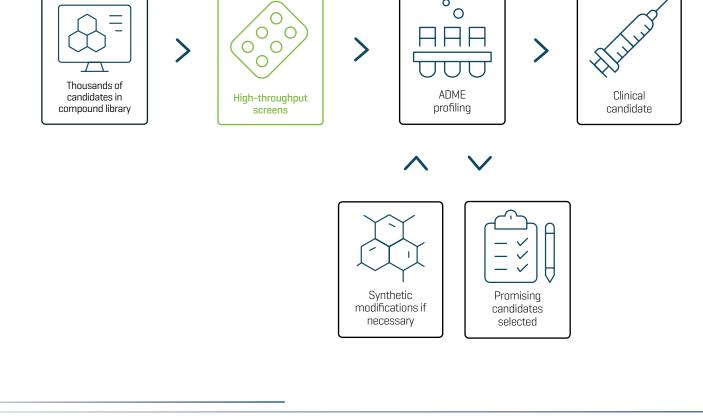
for clinical use. Since approximately 90% of new drug candidates fail in clinical development, the ability to make early, informed and accurate decisions on the safety and efficacy of new hits and leads is key to increasing the chances of success. This infographic explores the benefits of Acoustic Ejection Mass Spectrometry (AEMS)-based workflows for efficient small and large molecule screening.

On average, it takes 10-15 years and 1-2 billion dollars to approve a new pharmaceutical

Drug discovery demands high-quality data, system reliability and speed at the lowest possible cost. By driving key decisions earlier in the process, these attributes increase the likelihood of developing

successful clinical candidates.

Why is high-throughput screening needed?



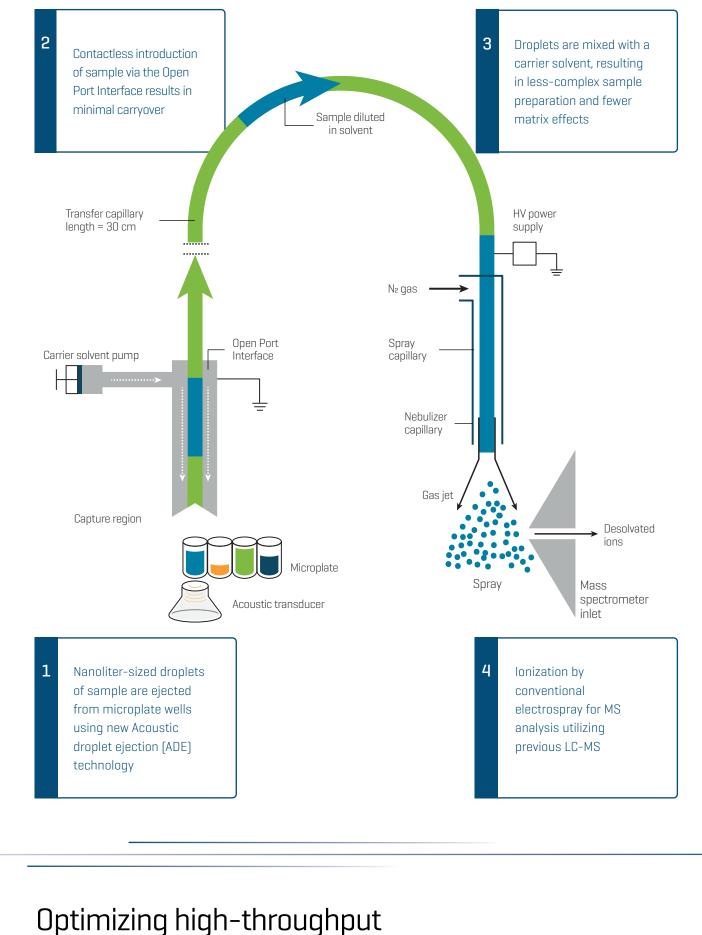
Key decisions about drug candidates depend on the quality of the analytical data. Fluorescence-based

Addressing the challenges of traditional methods

to implement and has enhanced data reliability.

The Echo® MS+ systems produce results with the precision and accuracy required for drug discovery.

assays have been the gold standard for hit identification but can be prone to false positives. This has driven the need for an alternative, label-free technique that combines speed and sensitivity, is simple

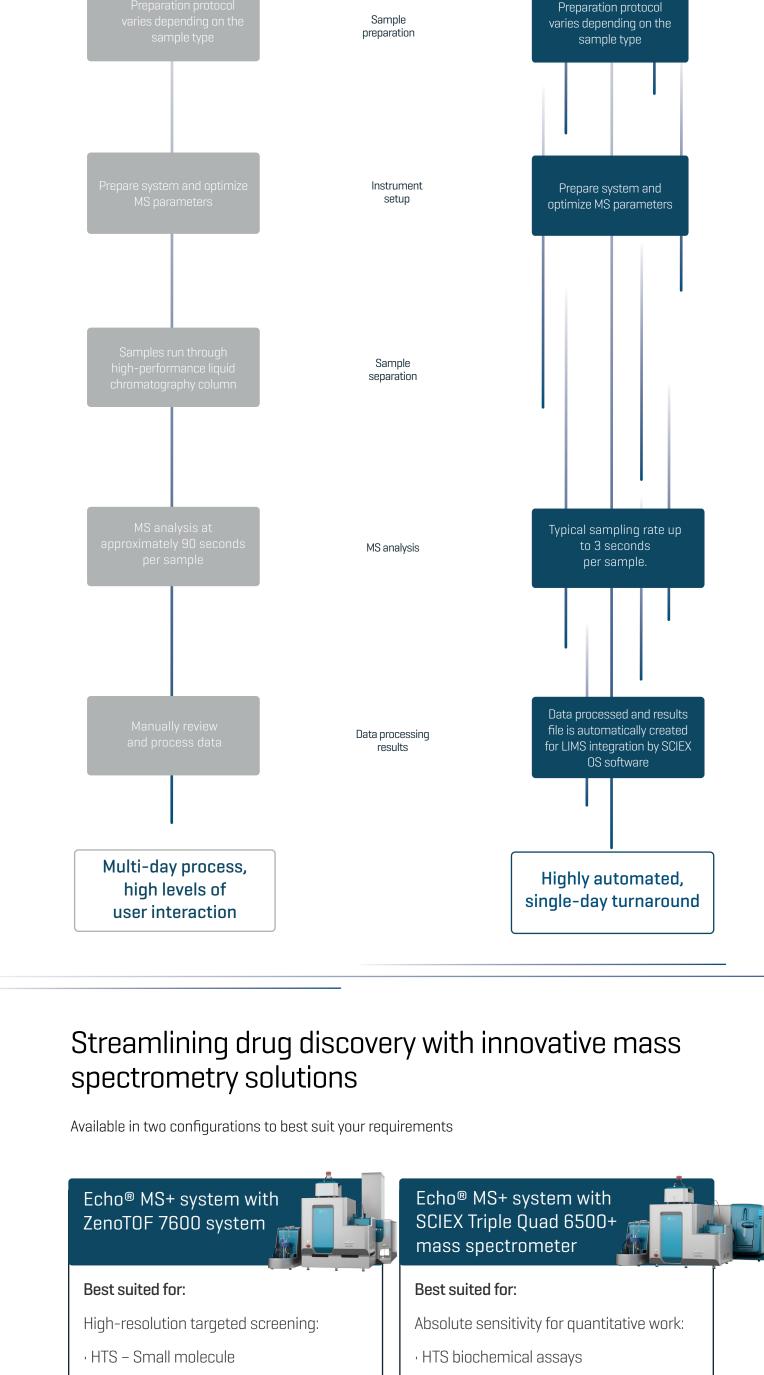


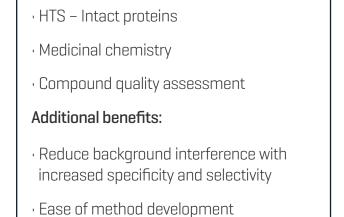
Echo® MS+ systems

Preparation protocol

Traditional LC-MS

mass spectrometry screening





Additional benefits: Simplicity of general system operation Higher level of quantitative consistency

(MS method)

References 1. Sun D, Gao

- Sun D, Gao W, Hu H, Zhou S. Why 90% of clinical drug development fails and how to improve it? *Acta Pharmaceutica Sinica B*. 2022;12[7]:3049-3062. doi:10.1016/j.apsb.2022.02.002
 Lowe D. The latest on drug failure and approval rates. Science. https://www.science.org/content/blog-post/latest-drug-fail-ure-and-approval-rates. Published May 9 2019. Accessed October 28, 2022.
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